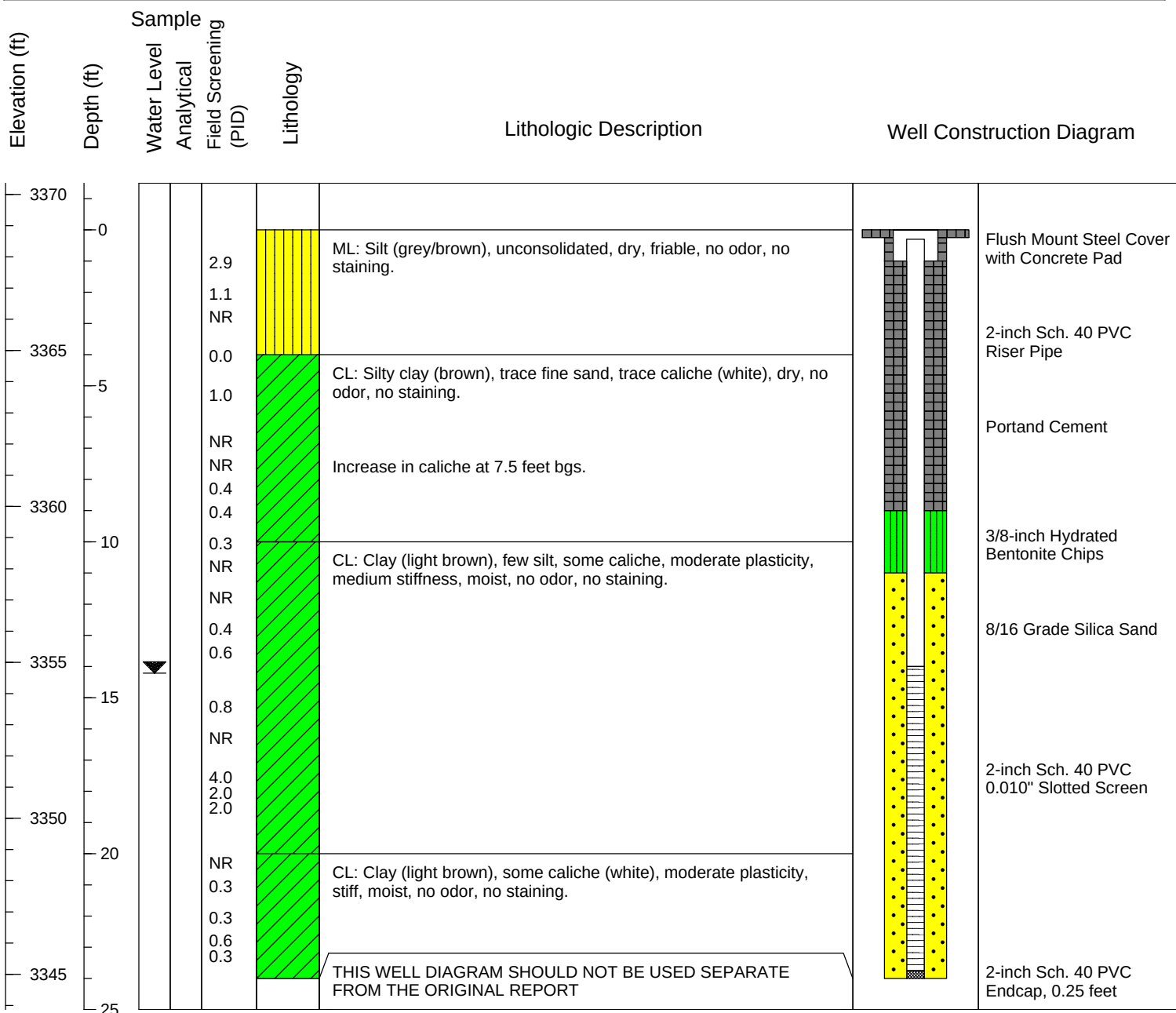


Appendix A



MW-53R

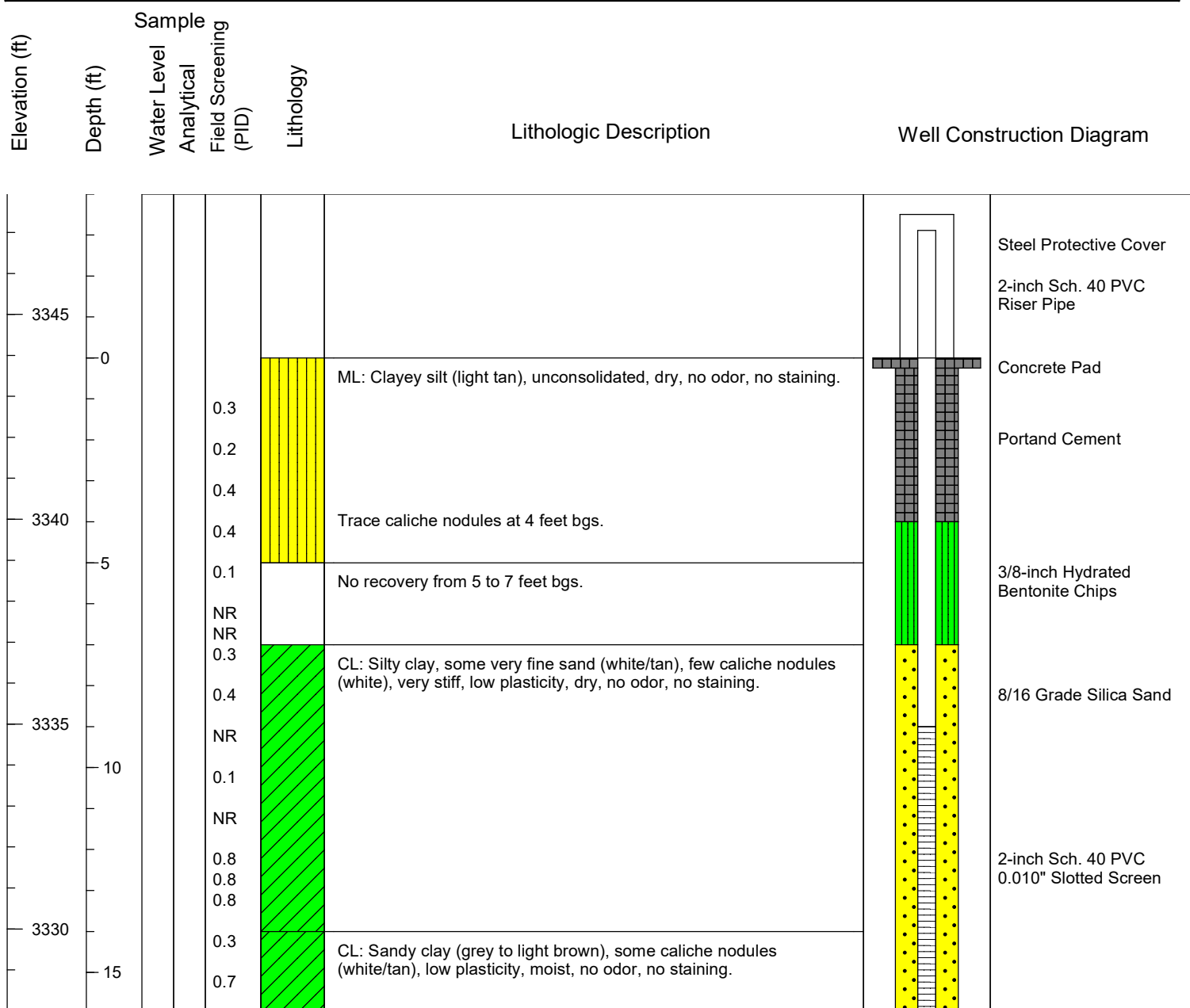
Client: HollyFrontier Navajo Refining LLC		TRC Project #: 387273.0000.0000
Site: Artesia Refinery		Start Date: 9/23/2020
Address: 501 E Main St, Artesia NM		Finish Date: 9/23/2020
Project: Damaged Well Replacement		Permit #: RA-12950
Drilling Company: Talon LPE	Drilling Crew: R. Rodriguez & crew	TRC Site Rep.: John O'Neal
Drilling Method: Hollow-Stem Auger		TRC Reviewer: Jason Jayroe
Boring Diameter (in): 7.88	Boring Depth (ft bgs): 24.0	Coord. System: NAVD88
Sampling Method: 5-ft Continuous Core Sampler		Northing: 673615.989
Blow Count Method: NA		Easting: 521463.004
Field Screening Parameter: Volatile Organic Compounds		Elevation Datum: NAD 1983
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 3368.87
Well Depth (ft bgs): 24.0	Well Depth (ft toc): 24.30	Well Elevation (ft): 3368.75
Casing Length (ft): 13.93	Screen Length (ft): 10.0	Well Measuring Point: Top of casing
Surface Completion: Flush mount steel cover with concrete pad		Depth to Water (ft toc): 14.21
Well Development: Pump and surge 20 gallons		Date/Time: 9/25/2020 09:25





MW-145

Client: HollyFrontier Navajo Refining LLC		TRC Project #: 403125.0000.0000
Site: Artesia Refinery		Start Date: 9/22/2020
Address: 501 E Main St, Artesia NM		Finish Date: 9/22/2020
Project: Downgradient Well Installation		Permit #: RA-12950
Drilling Company: Talon LPE	Drilling Crew: R. Rodriguez & crew	TRC Site Rep.: John O'Neal
Drilling Method: Hollow-Stem Auger		TRC Reviewer: Jason Jayroe
Boring Diameter (in): 7.88	Boring Depth (ft bgs): 29	Coord. System: NAVD88
Sampling Method: 5-ft Continuous Core Sampler		Northing: 672914.535
Blow Count Method: NA		Easting: 527283.916
Field Screening Parameter: Volatile Organic Compounds		Elevation Datum: NAD 1983
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 3343.94
Well Depth (ft bgs): 29.0	Well Depth (ft toc): 32.36	Well Elevation (ft): 3347.07
Casing Length (ft): 12.11	Screen Length (ft): 20.0	Well Measuring Point: Top of casing
Surface Completion: Stick-up casing w/ steel protective cover and concrete pad		Depth to Water (ft toc): 20.22
Well Development: Pump and surge 52 gallons		Date/Time: 9/25/2020



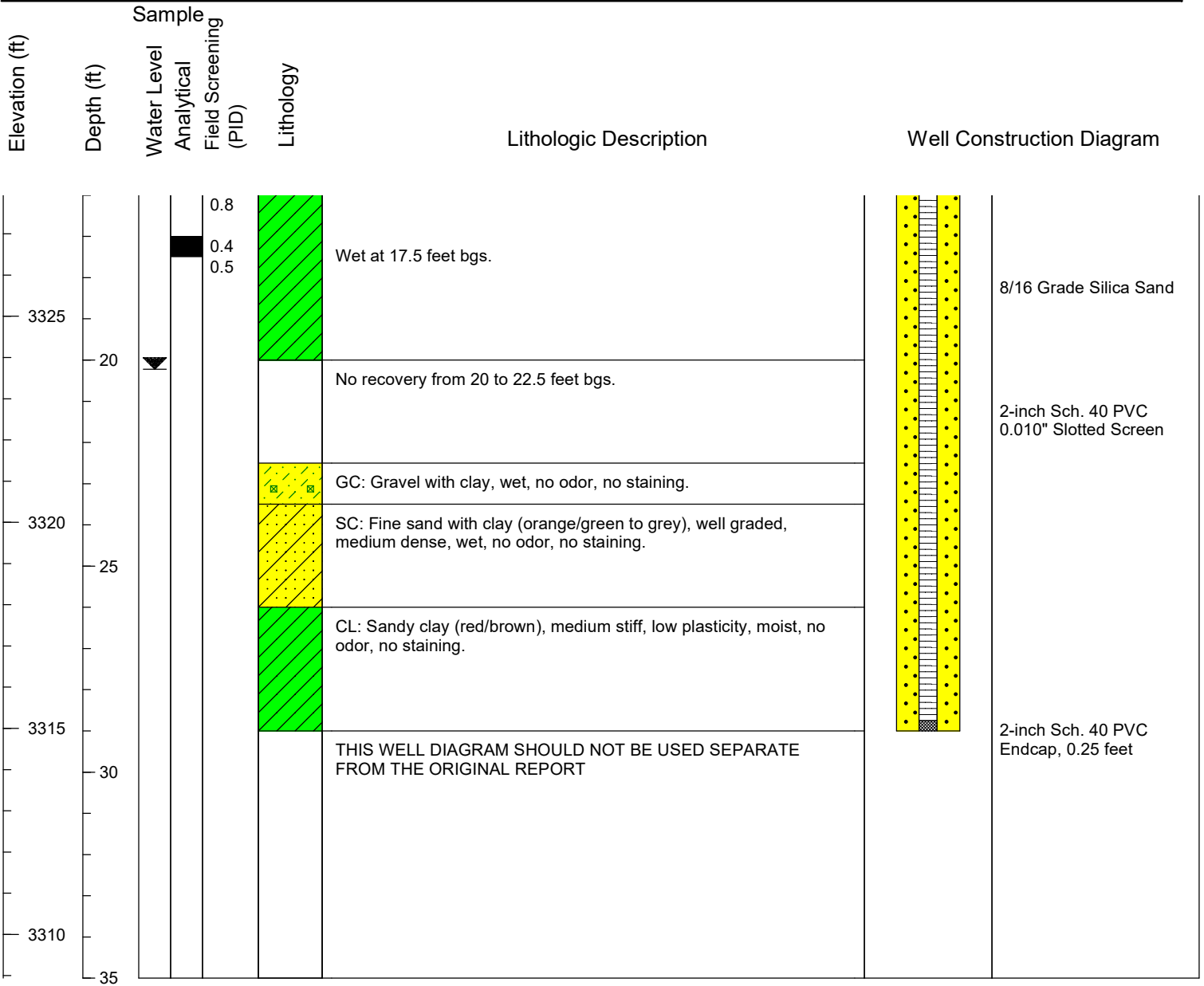


MW-145

Client: HollyFrontier Navajo Refining LLC

Site: Artesia Refinery

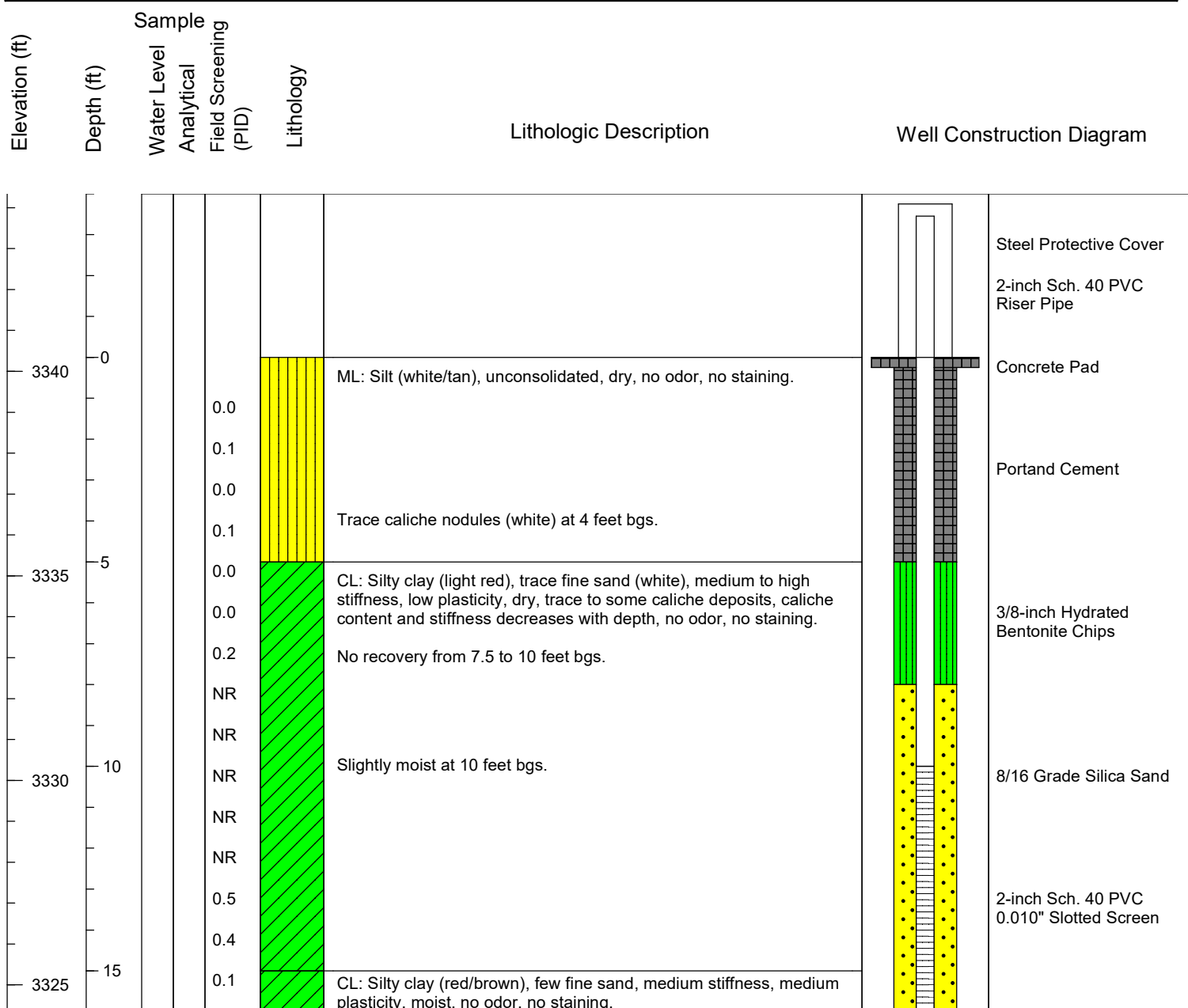
Page 2 of 2





MW-146

Client: HollyFrontier Navajo Refining LLC		TRC Project #: 403125.0000.0000
Site: Artesia Refinery		Start Date: 9/22/2020
Address: 501 E Main St, Artesia NM		Finish Date: 9/23/2020
Project: Downgradient Well Installation		Permit #: RA-12950
Drilling Company: Talon LPE	Drilling Crew: R. Rodriguez & crew	TRC Site Rep.: John O'Neal
Drilling Method: Hollow-Stem Auger		TRC Reviewer: Jason Jayroe
Boring Diameter (in): 7.88	Boring Depth (ft bgs): 30	Coord. System: NAVD88
Sampling Method: 5-ft Continuous Core Sampler		Northing: 673173.048
Blow Count Method: NA		Easting: 527636.606
Field Screening Parameter: Volatile Organic Compounds		Elevation Datum: NAD 1983
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 3340.34
Well Depth (ft bgs): 30.0	Well Depth (ft toc): 33.70	Well Elevation (ft): 3343.09
Casing Length (ft): 13.45	Screen Length (ft): 20.0	Well Measuring Point: Top of casing
Surface Completion: Stick-up casing w/ steel protective cover and concrete pad		Depth to Water (ft toc): 24.08
Well Development: Pump and surge 50 gallons		Date/Time: 9/25/2020



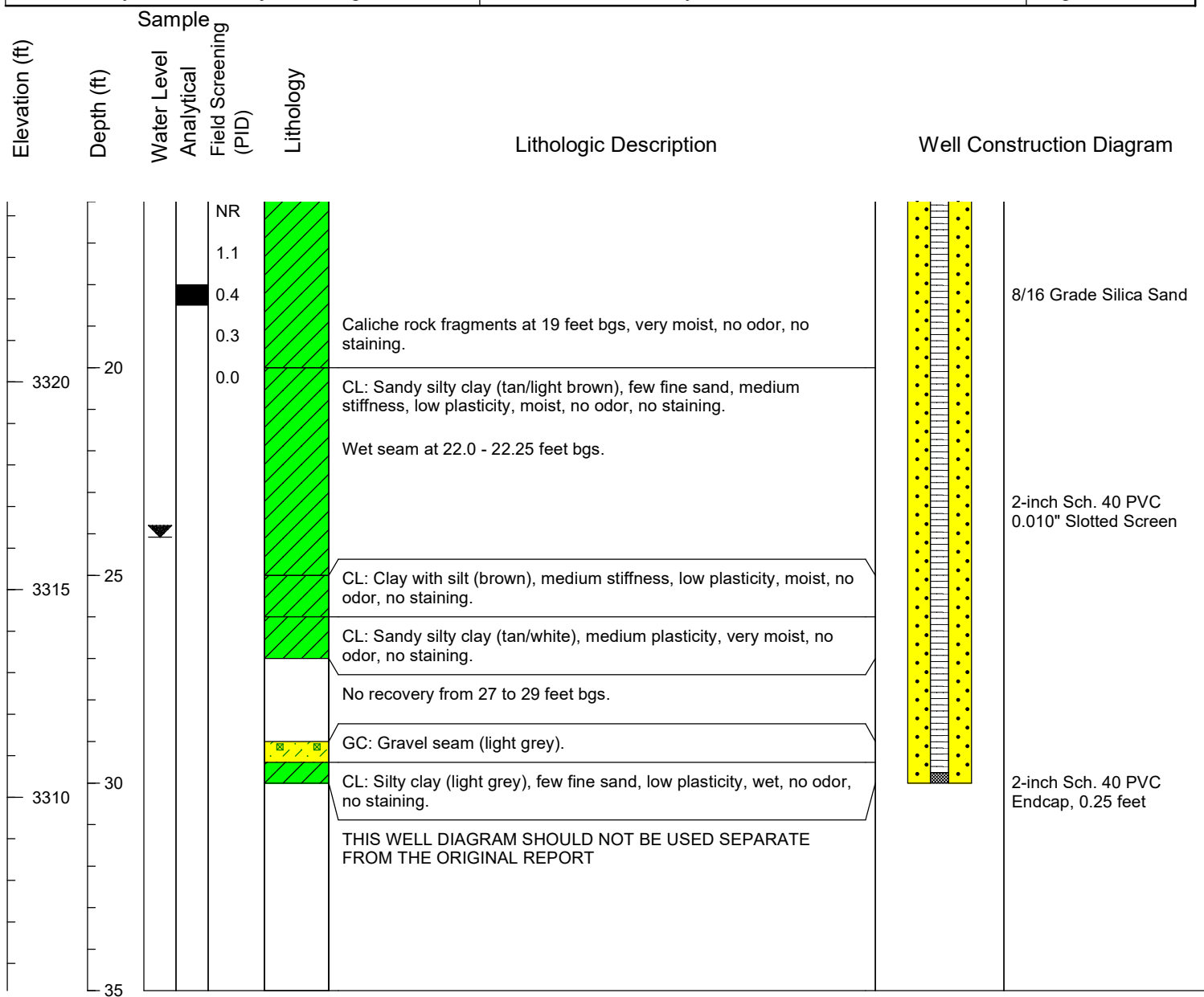


MW-146

Client: HollyFrontier Navajo Refining LLC

Site: Artesia Refinery

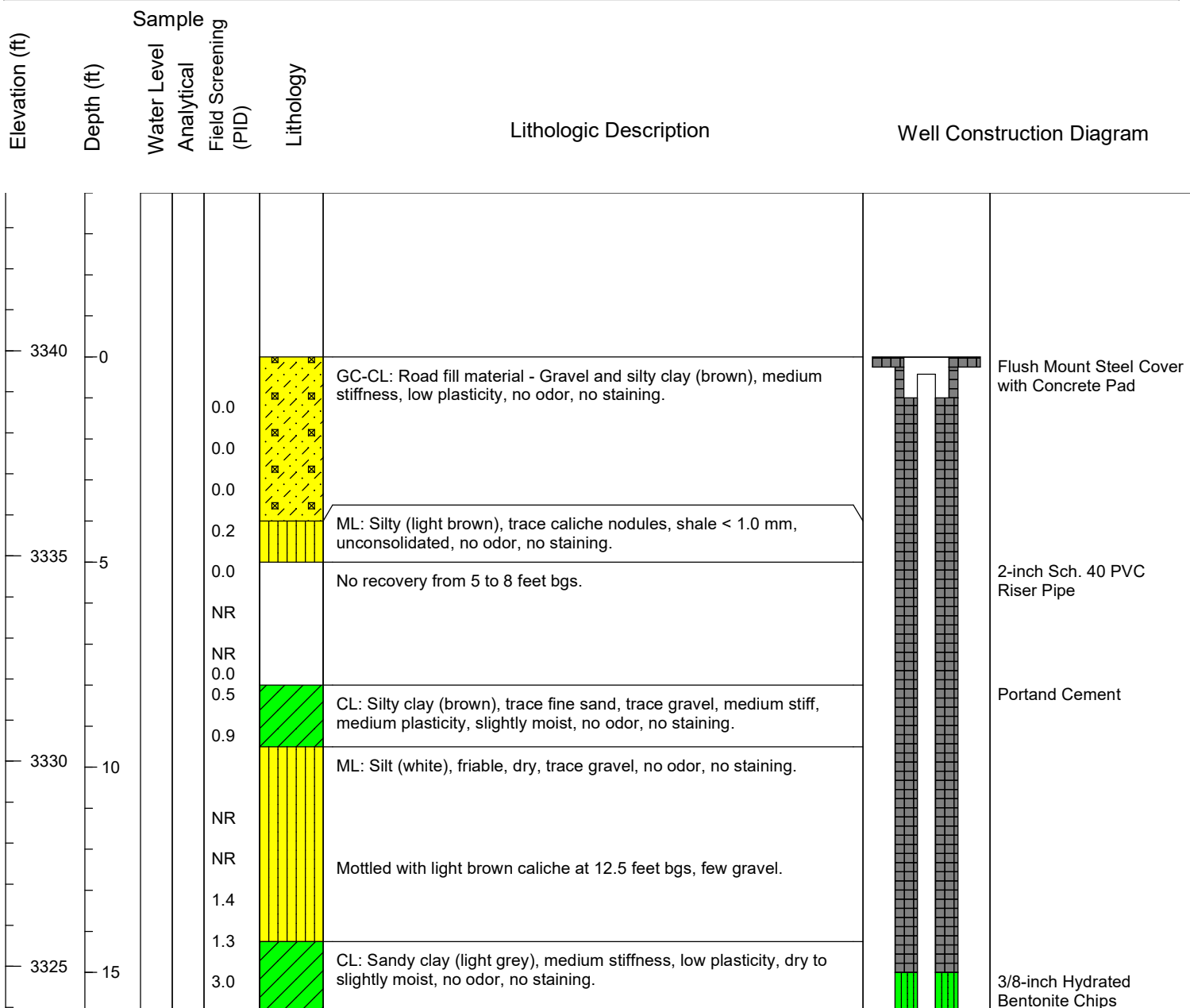
Page 2 of 2





MW-147

Client: HollyFrontier Navajo Refining LLC		TRC Project #: 403125.0000.0000
Site: Artesia Refinery		Start Date: 9/24/2020
Address: 501 E Main St, Artesia NM		Finish Date: 9/24/2020
Project: Downgradient Well Installation		Permit #: RA-12950
Drilling Company: Talon LPE	Drilling Crew: R. Rodriguez & crew	TRC Site Rep.: John O'Neal
Drilling Method: Hollow-Stem Auger		TRC Reviewer: Jason Jayroe
Boring Diameter (in): 7.88	Boring Depth (ft bgs): 40.0	Coord. System: NAVD88
Sampling Method: 5-ft Continuous Core Sampler		Northing: 671265.079
Blow Count Method: NA		Easting: 530212.282
Field Screening Parameter: Volatile Organic Compounds		Elevation Datum: NAD 1983
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 3339.85
Well Depth (ft bgs): 40.0	Well Depth (ft toc): 39.83 (HMI)	Well Elevation (ft): 3339.48
Casing Length (ft): 19.58	Screen Length (ft): 20.0	Well Measuring Point: Top of casing
Surface Completion: Flush mount steel cover with concrete pad		Depth to Water (ft toc): 30.73
Well Development: Pump and surge 50 gallons		Date/Time: 9/25/2020



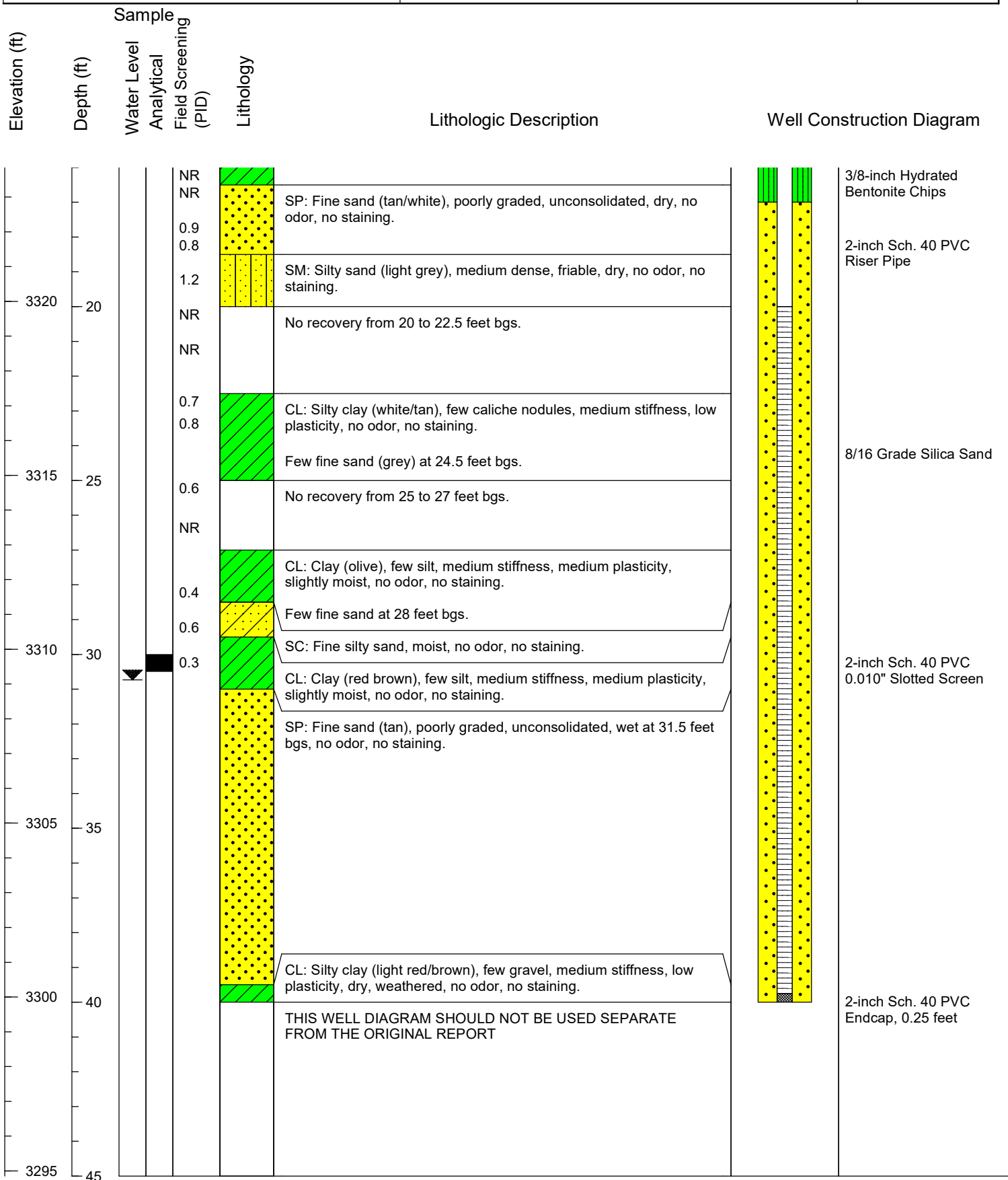


MW-147

Client: HollyFrontier Navajo Refining LLC

Site: Artesia Refinery

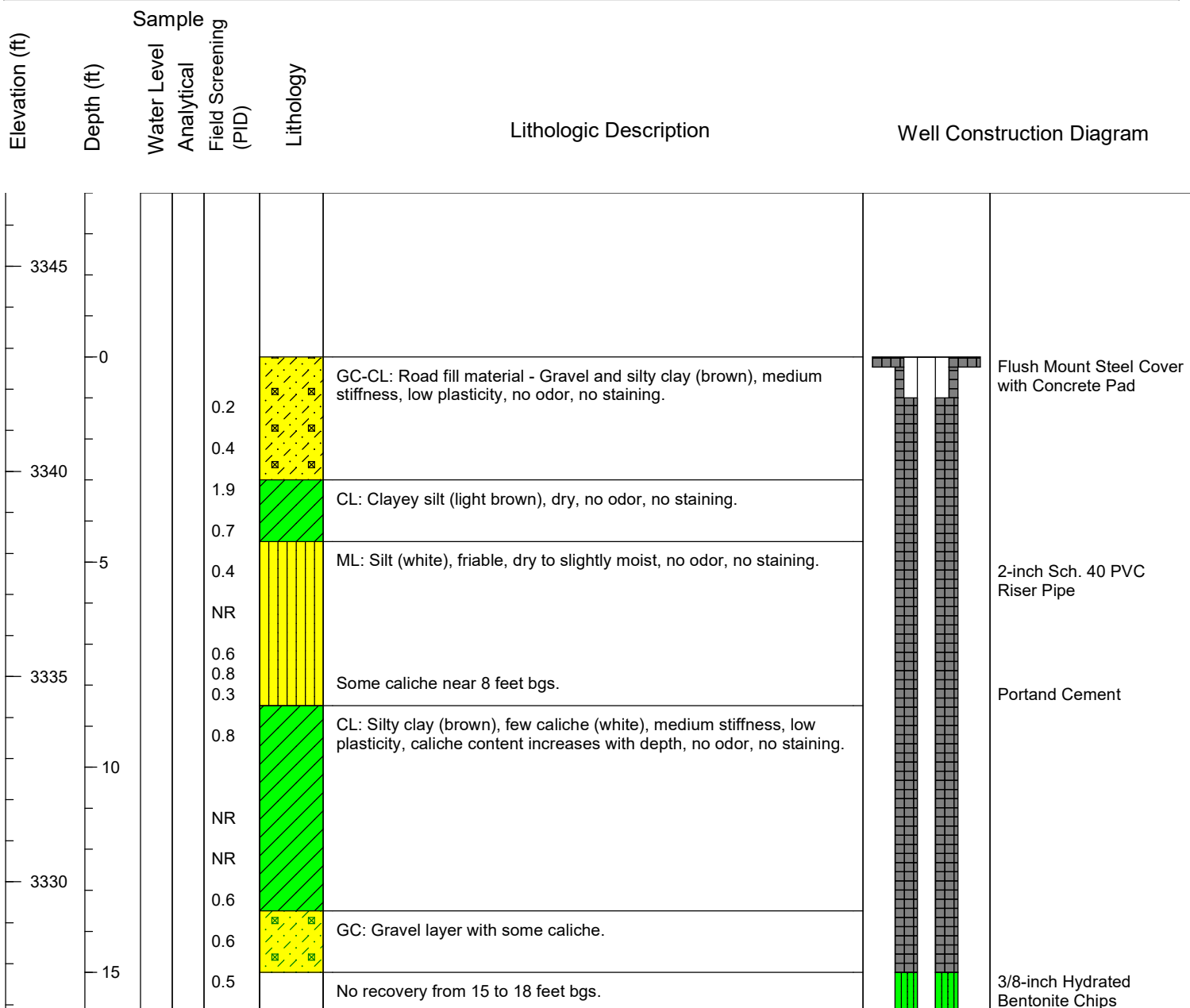
Page 2 of 2





MW-148

Client: HollyFrontier Navajo Refining LLC		TRC Project #: 403125.0000.0000
Site: Artesia Refinery		Start Date: 9/24/2020
Address: 501 E Main St, Artesia NM		Finish Date: 9/24/2020
Project: Downgradient Well Installation		Permit #: RA-12950
Drilling Company: Talon LPE	Drilling Crew: R. Rodriguez & crew	TRC Site Rep.: John O'Neal
Drilling Method: Hollow-Stem Auger		TRC Reviewer: Jason Jayroe
Boring Diameter (in): 7.88	Boring Depth (ft bgs): 40.0	Coord. System: NAVD88
Sampling Method: 5-ft Continuous Core Sampler		Northing: 670534.369
Blow Count Method: NA		Easting: 530218.563
Field Screening Parameter: Volatile Organic Compounds		Elevation Datum: NAD 1983
Meter: MiniRAE PID	Units: ppm	Ground Elevation (ft): 3342.79
Well Depth (ft bgs): 40.0	Well Depth (ft toc): 40.25	Well Elevation (ft): 3342.59
Casing Length (ft): 20.0	Screen Length (ft): 20.0	Well Measuring Point: Top of casing
Surface Completion: Flush mount steel cover with concrete pad		Depth to Water (ft toc): 34.80
Well Development: Pump and surge 30 gallons		Date/Time: 9/25/2020



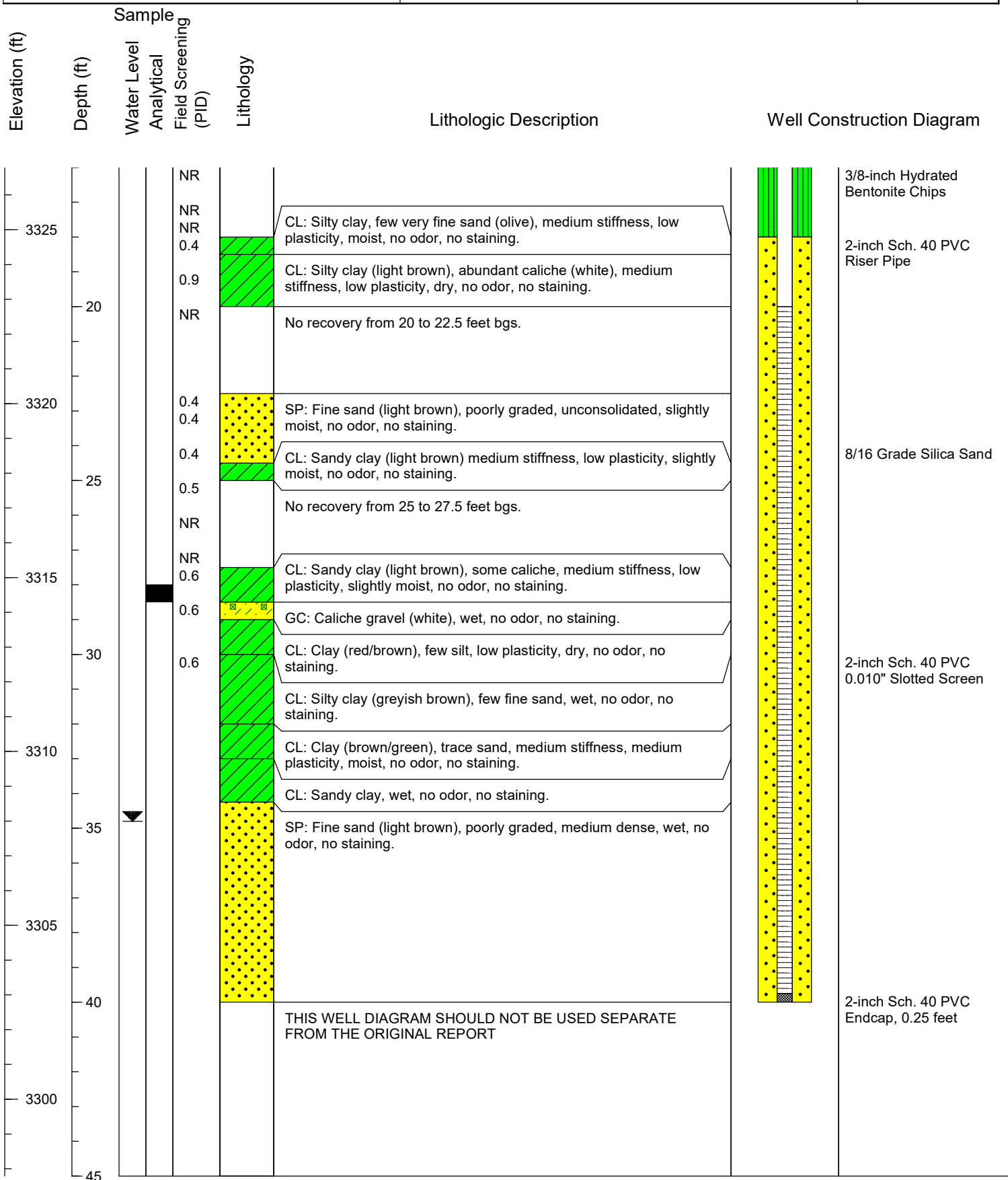


MW-148

Client: HollyFrontier Navajo Refining LLC

Site: Artesia Refinery

Page 2 of 2



wood.17325 Park Row
Houston, TX 77084
(832) 809-8000**WELL NUMBER MW-62R**

PAGE 1 OF 1

CLIENT HollyFrontier Navajo Refining LLC**PROJECT NAME** Artesia, New Mexico Refinery**PROJECT NUMBER** 6703200049**PROJECT LOCATION** Artesia, New Mexico**DATE STARTED** 9/1/20**COMPLETED** 9/3/20**TOC ELEVATION** 3368.5254 ft**HOLE SIZE** 8"**DRILLING CONTRACTOR** Tolunay-Wong Engineers**GROUND WATER LEVELS:****DRILLING METHOD** Hand Auger 0-5ft bgs; DPT 5-25ft bgs; HSA - well install**AT TIME OF DRILLING** ---**LOGGED BY** E. Sosa**CHECKED BY****AT END OF DRILLING** ---**NOTES** Northing: 672656.0151, Easting: 522699.1932**▼ AFTER DRILLING** 16.33 ft

GENERAL BH / TP / WELL - GINT STD US.GDT - 2/10/21 15:31 - I:\CLIENT\HOLLYFRONTIER\ARTESIA\MM6703200049 - HF NESTED WELL IMPLEMENTATION\9.0 DRAFT REPORTS\WELL LOGS\NAVAJO.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 2" PVC
			SC		(SC) CLAYEY SAND with some 0.25-1" subangular to subrounded gravel, medium plasticity, brown, dry, no staining, no odor	0 - 1ft bgs: Cement Grout 1 - 3ft bgs: Bentonite Seal
3.0						
			CL		(CL) SANDY CLAY, medium plasticity, dark brown, dry, no staining, no odor, carbonate nodules present	
5		0			Medium to high plasticity, brown, moist	
		0			Staining present, slight odor	
		2				
		6				
		30				
10		5			Moderate odor	
		25				
		110				
		1365				
		1381			Heavy odor	
15		350				
	GB MW-62R-16	1405			▼ Moderate odor	
		1027				
		275				
20		50				
		32				
		110				
		400				
		160				
24.0						
25	GB MW-62R-25	20	CH		(CH) CLAY, medium to high plasticity, dark gray, moist, staining, slight odor	3 - 25ft bgs: Filter Pack 4.5 - 24.5ft bgs: Well Screen
25.0						

Bottom of borehole at 25.0 feet.

Acronyms/Abbreviations

" - inch/inches

bgs - below ground surface

DPT - direct push technology

ft - foot/feet

GB - grab sample

HSA - hollow stem auger

PID - photoionization detector

ppm - parts per million

U.S.C.S - United Soil Classification System

wood. 17325 Park Row Houston, TX 77084 (832) 809-8000	WELL NUMBER MW-137A PAGE 1 OF 1
CLIENT <u>HollyFrontier Navajo Refining LLC</u>	PROJECT NAME <u>Artesia, New Mexico Refinery</u>
PROJECT NUMBER <u>6703200049</u>	PROJECT LOCATION <u>Artesia, New Mexico</u>
DATE STARTED <u>9/2/20</u> COMPLETED <u>9/3/20</u>	TOC ELEVATION <u>3363.4542 ft</u> HOLE SIZE <u>8"</u>
DRILLING CONTRACTOR <u>Tolunay-Wong Engineers</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger 0-5ft bgs; DPT 5-15ft bgs; HSA - well install</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>E. Sosa</u> CHECKED BY _____	AT END OF DRILLING <u>---</u>
NOTES <u>Northing: 672872.2025, Easting: 523039.4696</u>	AFTER DRILLING <u>--- Dry</u>

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 2" PVC
4		4	SC		1.0 (SC) CLAYEY SAND, low plasticity, brown, dry, no staining, slight odor, carbonate nodules present	0 - 1ft bgs: Cement
6		6			(CL) SANDY CLAY, medium plasticity, dark gray, dry, dark staining, moderate odor	Grout
10		10			Low to medium plasticity, light gray, stained, moderate odor	1 - 3ft bgs: Bentonite
60		60			Medium plasticity, light gray-green, moist, heavy staining, heavy odor, carbonate nodules present	Seal
50		50				
5000+		5000+				
5000+		5000+				
5000+		5000+				
5000+		5000+				
5000+		5000+				
10		5000+	CL		Low to medium plasticity, light gray, some caliche present	3 - 15.45ft bgs: Filter Pack
5000+		5000+				5 - 15ft bgs: Well Screen
5000+		5000+				
15	GB MW-137R-14	5000+			Medium to high plasticity, light gray-green	
	GB MW-137R-15	5000+				
				15.5		

Bottom of borehole at 15.5 feet.

Acronyms/Abbreviations

" - inch/inches
 bgs - below ground surface
 DPT - direct push technology
 ft - foot/feet
 GB - grab sample
 HSA - hollow stem auger
 PID - photoionization detector
 ppm - parts per million
 U.S.C.S - United Soil Classification System

wood.17325 Park Row
Houston, TX 77084
(832) 809-8000**WELL NUMBER MW-138A**

PAGE 1 OF 1

CLIENT HollyFrontier Navajo Refining LLC**PROJECT NAME** Artesia, New Mexico Refinery**PROJECT NUMBER** 6703200049**PROJECT LOCATION** Artesia, New Mexico**DATE STARTED** 9/2/20**COMPLETED** 9/3/20**TOC ELEVATION** 3364.5557 ft**HOLE SIZE** 8"**DRILLING CONTRACTOR** Tolunay-Wong Engineers**GROUND WATER LEVELS:****DRILLING METHOD** Hand Auger 0-5ft bgs; DPT 5-15ft bgs; HSA - well install**AT TIME OF DRILLING** ---**LOGGED BY** E. Sosa**CHECKED BY****AT END OF DRILLING** ---**NOTES** Northing: 672924.4891, Easting: 522916.0881**AFTER DRILLING** --- Dry

GENERAL BH / TP / WELL - GINT STD US.GDT - 2/10/21 15:31 - I:\CLIENT\HOLLYFRONTIER\ARTESIA\M6703200049 - HF NESTED WELL IMPLEMENTATION\9.0 DRAFT REPORTS\WELL LOGS\NAVAJO.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 2" PVC
		1	SC		(SC) CLAYEY SAND with trace 0.5-1" subangular to subrounded gravel, low to medium plasticity, brown, dry, no staining, no odor	0 - 1ft bgs: Cement Grout
		2				1 - 3ft bgs: Bentonite Seal
		6			(CL) SANDY CLAY, low to medium plasticity, black-gray, dry, heavy staining, light odor	
		11			Whitish gray, stained, odor, some caliche present	
		10				
5		40				
		230			Medium to high plasticity, grayish greenish white, carbonate nodules present	
		384				
		464				
		1740	CL			
10		3701				3 - 15.65ft bgs: Filter Pack
		1983				5 - 15ft bgs: Well Screen
		1309				
	GB	4903				
	MW-138R-14					
15	GB	2205			Low to medium plasticity, brown, no carbonate nodules	
	MW-138R-15					
					15.7	

Bottom of borehole at 15.7 feet.

Acronyms/Abbreviations

" - inch/inches

bgs - below ground surface

DPT - direct push technology

ft - foot/feet

GB - grab sample

HSA - hollow stem auger

PID - photoionization detector

ppm - parts per million

U.S.C.S - United Soil Classification System

Appendix B

Released for Imaging: 11/22/2022 8:51:39 AM

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 3366 ft. Lat: 32.7547° N Lon: -104.3835° W
Station: **ARTESIA 6 S, NM US USC00290600**

Record of Climatological Observations
These data are quality controlled and may not
be identical to the original observations.

Generated on 01/28/2021

Observation Time Temperature: 0730 Observation Time Precipitation: 0730

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	06	01	90	57	64	0.00		0.0		0.0	154.7	0.38	5	72	71			
2020	06	02	89	61	66	0.00		0.0		0.0	180.8	0.38	5	72	72			
2020	06	03	94	66	72	0.00		0.0		0.0	144.2	0.30	5	73	71			
2020	06	04	96	67	74	0.00		0.0		0.0	129.2	0.32	5	75	75			
2020	06	05	102	72	74	0.00		0.0		0.0	221.8	0.39	5	75	73			
2020	06	06	103	71	73	0.00		0.0		0.0	313.8	0.51	5	76	75			
2020	06	07	99	68	73	0.00		0.0		0.0	387.7	0.64	5	76	76			
2020	06	08	100	62	69	0.00		0.0		0.0	210.0	0.48	5	76	75			
2020	06	09	95	56	62	0.00		0.0		0.0	270.9	0.63	5	76	75			
2020	06	10	89	46	60	0.00		0.0		0.0	92.0	0.33	5	75	74			
2020	06	11	92	60	69	0.00		0.0		0.0	193.9	0.42	5	75	74			
2020	06	12	95	64	70	0.02		0.0		0.0	203.8	0.16	5	76	74			
2020	06	13	96	61	68	0.00		0.0		0.0	206.9	0.49	5	75	74			
2020	06	14	97	65	67	0.00		0.0		0.0	275.9	0.67	5	75	75			
2020	06	15	96	61	68	0.00		0.0		0.0	243.0	0.47	5	75	73			
2020	06	16	94	58	68	0.00		0.0		0.0	200.7	0.38	5	74	73			
2020	06	17	94	66	71	0.00		0.0		0.0	216.9	0.30	5	75	73			
2020	06	18	98	63	66	0.00		0.0		0.0	216.2	0.57	5	75	73			
2020	06	19	100	63	70	0.00		0.0		0.0	133.0	0.41	5	76	74			
2020	06	20	100	64	69	0.00		0.0		0.0	157.8	0.45	5	76	76			
2020	06	21	96	58	65	0.00		0.0		0.0	115.0	0.34	5	77	76			
2020	06	22	106	63	76	0.00		0.0		0.0	113.7	0.33	5	76	76			
2020	06	23	103	70	73	0.00		0.0		0.0	157.2	0.45	5	77	76			
2020	06	24	96	62	66	0.24		0.0		0.0	115.0	0.35	5	77	76			
2020	06	25	90	62	67	0.00		0.0		0.0	172.7	0.30	5	77	76			
2020	06	26	97	63	65	0.00		0.0		0.0	198.2	0.54	5	76	75			
2020	06	27	100	65	70	0.02		0.0		0.0	183.9	0.35	5	76	75			
2020	06	28	98	66	71	0.00		0.0		0.0	187.0	0.37	5	75	75			
2020	06	29	99	67	75	0.00		0.0		0.0	175.2	0.31	5	75	75			
2020	06	30	97	69	74	0.00		0.0		0.0	267.8	0.61	5	76	75			
Summary			97	63		0.28		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests. "At Obs." = Temperature at time of observation

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

Received for Imaging: 11/22/2022 9:24:38 AM



Hydrologic Monitoring

1654 W. Sam Houston Pkwy. N.
Houston, Texas 77043

Phone 713.464.5206
Fax 713.464.5207

June 23, 2020

Ms. Julie Speer, P.G.
Project Manager
TRC
505 East Huntland Drive, Suite 250
Austin, Texas 78752

Subject: June 2020 (Spring) Groundwater Monitoring Event
Sitewide Gauging – June 15-16, 2020
Groundwater Sampling – June 15-19, 2020
Navajo Refining Company, Artesia, New Mexico

Dear Ms. Speer:

This document summarizes groundwater monitoring field activities conducted by Hydrologic Monitoring, LLC (HMI) on behalf of TRC at the Navajo Refining Company, Artesia Refinery, Artesia, New Mexico.

Contents

Field Activities Narrative
Table 1: (Gauging Data, GW Field Parameters, Well Inspections, & Analytical Program)
Groundwater Sampling SOP Memo
Daily Job Hazard Analysis (JHA) forms
Groundwater Sampling Forms and Field Instrument Calibration Log
(three (3) emails - forms in order of field-strategy shown in Table 1)
Chain-of-Custody Forms (one email)

Field Activities Narrative

1. Historically conducted in April, the 1H20 event was delayed until June, due to COVID 19 concerns. HMI conducted the *June 2020 (Spring) Groundwater Monitoring Event* (i.e., “SA” and “A” designations, only, in Table 1). Sitewide gauging was conducted June 15-16, 2020. Groundwater sampling (142 wells sampled) was conducted June 15-19, 2020.
2. Groundwater sampling was conducted in accordance with the Site Sampling and Analysis Plan, EPA guidance, and the attached Memorandum - Low-Flow Groundwater Monitoring Standard Operating Procedures, Navajo Refining Co. - Artesia, New Mexico. Per regulatory request, if measured LNAPL thickness was *less than* 0.03 feet, in any well scheduled for groundwater sampling, LNAPL was removed, and the well was sampled. If LNAPL thickness was equal to, or greater than 0.03 feet, in any well scheduled for sampling, the well was not sampled. Gauging data, groundwater field parameters, and well inspection information is summarized in Table 1. Samples were shipped overnight FedEx, to Pace National, Mt. Juliet, TN. The groundwater sampling process is documented on the attached groundwater sampling forms.
3. Field QA/QC Sampling (per Refinery Area):

Evaporation Ponds*Duplicates:*

Dup-EP-01 at MW-7A
 Dup-EP-02 at MW-22A
 Dup-EP-03 at MW-3

Equipment Blanks:

EB-EP-01 collected over decontaminated gauging probe after sampling at MW-74
 EB-EP-02 collected over decontaminated gauging probe after sampling at MW-124
 EB-EP-03 collected over decontaminated gauging probe after sampling at MW-5A
 EB-EP-04 collected over decontaminated gauging probe after sampling at MW-79
Trip Blank-EP-01 (...this intended ID was inadvertently labeled as Trip Blank-EP-04)
 Trip Blank-EP-02
 Trip Blank-EP-03
 Trip Blank-EP-04

NCL*Duplicate:*

Dup-NCL-01 at NCL-49

Equipment Blank:

EB-NCL-01 collected over decontaminated gauging probe after sampling at NCL-32
 Trip Blank-NCL-01

TMD

Trip Blank-TMD-01

TELDuplicate:

Dup-TEL-01 at TEL-4

Equipment Blank:

EB-TEL-01 collected over decontaminated gauging probe after sampling at TEL-2
Trip Blank-TEL-01

REST (“rest” of the site)Duplicates:

Dup-REST-01 at MW-113
Dup-REST-02 at MW-104
Dup-REST-03 at MW-134
Dup-REST-04 at MW-60
Dup-REST-05 at KWB-12B

Equipment Blanks:

EB-REST-01 collected over decontaminated gauging probe after sampling at MW-113
EB-REST-02 collected over decontaminated gauging probe after sampling at MW-104
EB-REST-03 collected over decontaminated gauging probe after sampling at MW-134
EB-REST-04 collected over decontaminated gauging probe after sampling at MW-60
EB-REST-05 collected over decontaminated gauging probe after sampling at KWB-12B
Trip Blank-REST-01
Trip Blank-REST-02
Trip Blank-REST-03
Trip Blank-REST-04

4. Notes:

1H20: Per TRC, Pace chain-of-custodies, reference PO # 150726

TRC notes from March 2020:

HMI’s daily JHA forms to be included in deliverables package.

Email TRC “Estimated Field Hours” table, pre-event; follow with “Actual Field Hours” table, post-event.

MW-101 recompleted at-grade (due to inside-plant construction) (photo sent to TRC).

MW-129 recompleted at-grade (due to new asphalt loading rack) (photo sent to TRC).

MW-53 (well lost to road construction, was not yet replaced with new well “MW-53R”, at 1H20 event).

Irrigation wells may experience upcoming changes, per TRC (TBD, replacements, etc.)

Renewed well-access to the Joy farm property may be upcoming, TBD, per TRC.

Training modules: “24HFNAV HOLLYFRONTIER SITE SPECIFIC ORIENTATION ARTESIA-NM”, and an additional “LPS” module – both @ HASC, annually (December-cycle). HMI’s DISA 2-yr background check/drug/alcohol requirements approved by safety-trailer personnel on 10-3-17 (updated 2019), as reported through HASC system; HMI will maintain its access status.

Per Navajo, purgewater is disposed in the pad sump (inside, then to the left of Main Gate entrance). Alternately, North Bundle Pad sump (fenced area of drums, etc.), notifying FCC control room prior to entrance.

Sitewide well and gate lock combinations: "2-0-1-3" (less often "2-0-0-2").

With suggested telephone notification, FedEx pickup from locked shed (35-25-39 combination) no earlier than approximately 14:00 daily, located across from Artesia Wool Co (access shed-area from "inside" Refinery).

North side of Hwy 82, east of site, gate with cable and combination lock (8810).

POTW bldg, check-in as needed, to borrow a key or get gate unlocked.

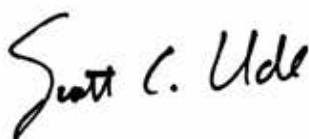
HMI borrows Navajo key sets for "Evaporation Ponds" & "TEL" at permitting (return keys upon event completion, each event). Navajo's Mr. Robert Combs, Randy Dade, Richard Orosco, for daily safety review and permit-issuing per team member (typically 8-10 HMI team-members).

Navajo completed well surface completion upgrades in a phased-approach, beginning 2018. HMI's well inspections are documented on respective well gauging and sampling forms. Well inspection items of potential concern (i.e., "Issues") are highlighted in yellow color (see Table 1).

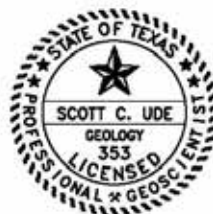
HMI appreciates the opportunity to assist TRC with this project. If you have any questions or would like additional information please feel free to call us at 713.464.5206.

Sincerely,

HYDROLOGIC MONITORING



Scott C. Ude, P.G.



The seal appearing on this document was authorized by Scott C. Ude, P.G. 353 on June 23, 2020.

Attachments

cc: Dana Helbert, P.G., TRC-Austin

Table 1: Gauging Data, Groundwater Field Parameters and Well Inspections, 1H20
Navajo Refining Company - Artesia Refinery, Artesia, New Mexico

Table 1: Gauging Data, Groundwater Field Parameters and Well Inspections, 1H20
Navajo Refining Company - Artesia Refinery, Artesia, New Mexico

Well ID	Well Type	HMI Use	HMI Use (# Samp Wells)	HMI Use (Field-Strategy Order)	Location			Hydrologic Monitoring-Collected Data (Gauging/Groundwater Field Parameter/Well Inspection)																	PSH Expected? ^b	Gauging Frequency	Analytical Suite and Frequency ^c													
					Gauge Date	Gauge Time	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	LNAPL Column (ft)	Total Depth (ft btoc)	Sample Date	Sample Time	pH (S.U.)	T (C)	Spec. Cond. (umho/cm)	D. O. (mg/l)	ORP (mg/l)	Turb. (NTU)	Water Clarity	Cap	Casing	Well Secured	Label	Purge Parameters			DRO	GRO	VOC	Metals (As, Ba, Cr, Fe, Pb, Mn, Se)	Metals (Hg, Ni, V, B, Cd, Co, U)	Cyanide	Cations/Anions	Nitrates / Nitrites as Nitrogen	SVOC (8270)	EDB (8011)	TDS			
MW-98	Monitoring	TAB	113	177	REST	16-Jun	1330	NP	12.88	0.00	25.60	16-Jun	1355	6.67	25.5	3,210	0.8	-376.6	6.3	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	SA	SA	SA	-	-	SA	SA			SA		
RW-10	Recovery ^d	TAB	114	178	REST	16-Jun	900	NP	15.18	0.00	22.49	16-Jun	925	7.10	22.3	2,520	0.9	-326.5	2.7	Clear	Yes	Yes	Yes	Yes		SA	A	A	A	A	A	-	-	A	A			A		
MW-40	Monitoring	TAB/SCD	115	179	REST	16-Jun	900	NP	13.86	0.00	24.75	16-Jun	925	6.70	21.7	2,670	1.5	-365.9	9.1	Clear, black particles	Yes	Yes	Yes	Yes		SA	A	A	A	A	A	-	-	A	A			A		
MW-41	Monitoring	TAB/RJM	116	180	REST	16-Jun	1015	NP	14.02	0.00	21.56	16-Jun	1040	6.56	25.1	5,300	2.2	-217.4	6.7	Clear	Yes	Yes	Yes	Yes		SA	A	A	A	A	A	-	-	A	A			A		
RW-9	Recovery ^d	TAB/RJM	117	181	REST	16-Jun	1210	NP	15.19	0.00	21.83	16-Jun	1235	6.83	26.0	3,610	1.3	-346.8	1.5	Clear	Yes	Yes	Yes	Yes		SA	A	A	A	A	A	-	-	A	A			A		
MW-42	Monitoring	TAB	118	182	REST	16-Jun	1610	NP	15.42	0.00	24.32	17-Jun	1420	6.76	25.2	6,110	2.4	-341.8	5.2	Clear	Yes	Yes	Yes	Yes		SA	A	A	A	A	A	-	-	A	A			A		
MW-29	Monitoring	TAB/SCD	119	183	REST	16-Jun	955	NP	20.76	0.00	24.22	16-Jun	1020	6.88	23.1	4,270	1.7	-325.8	8.9	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	SA	SA	SA	-	-	SA	SA			SA		
RW-#16B ^e	Recovery ^d	TAB/RJM	120	184	REST	16-Jun	930	NP	17.10	0.00	17.70	16-Jun	940	6.79	25.5	4,080	2.0	29.2	8.5	Clear	Yes	Yes	Cracked pad	Yes		SA	A	A	-	A	A	-	-	A	A			A		
MW-30	Monitoring	TAB		185	REST	16-Jun	1600	NP	15.90	0.00	23.50			Not in sampling program								Yes	Yes	Yes	Yes		SA	Not in sampling program												
MW-56	Monitoring	TAB/SCD	121	186	NCL	16-Jun	1100	NP	16.67	0.00	26.50	16-Jun	1125	6.70	22.3	3,850	1.3	-156.0	1.9	Clear	Yes	Yes	Yes	Yes		SA	A	A	-	A	A	-	-	A	A			A		
MW-49	Monitoring	TAB/RJM	122	187	TEL	16-Jun	1315	NP	12.95	0.00	33.07	16-Jun	1340	6.59	27.2	2,740	1.5	-373.4	6.2	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	SA	SA	SA	SA	SA	SA	SA			SA		
MW-106	Monitoring	TAB/RJM	123	188	REST	16-Jun	1600	NP	10.32	0.00	22.80	16-Jun	1625	6.63	26.6	2,830	1.6	-377.1	6.8	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	SA	SA	SA	-	-	SA	SA			SA		
MW-45	Monitoring	TAB	124	189	NCL	16-Jun	1630	NP	11.27	0.00	15.05	17-Jun	1520	6.93	23.2	4,530	1.4	-227.8	3.0	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	-	SA	SA	SA	SA	SA	SA			SA		
MW-139	Monitoring	CJH	125	190	REST	16-Jun	112																																	

Table 1: Gauging Data, Groundwater Field Parameters and Well Inspections, 1H20
Navajo Refining Company - Artesia Refinery, Artesia, New Mexico

Well ID	Well Type	HMI Use	HMI Use (# Samp Wells)	HMI Use (Field-Strategy Order)	Location			Hydrologic Monitoring-Collected Data (Gauging/Groundwater Field Parameter/Well Inspection)																		PSH Expected? ^b	Gauging Frequency	Analytical Suite and Frequency ^c													
					Gauge Date	Gauge Time	Depth to LNAPL (ft btoc)	Depth to Water (ft btoc)	LNAPL Column (ft)	Total Depth (ft btoc)	Sample Date	Sample Time	pH (S.U.)	T (C)	Spec. Cond. (umho/cm)	D. O. (mg/l)	ORP (mg/l)	Turb. (NTU)	Water Clarity	Cap	Casing	Well Secured	Label	Purge Parameters	DRO			GRO	VOC	Metals (As, Ba, Cr, Fe, Pb, Mn, Se)	Metals (Hg, Ni, V, B, Cd, Co, U)	Cyanide	Cations/Anions	Nitrates / Nitrites as Nitrogen	SVOC (8270)	EDB (8011)	TDS				
NCL-32	Monitoring	CJH	135	206	NCL	16-Jun	1725	NP	12.26	0.00	20.04	17-Jun	1050	6.79	23.0	3,200	1.1	-127.7	8.6	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	-	SA	SA	-	-	SA	SA			SA			
MW-108	Monitoring	CJH	136	207	NCL	16-Jun	1730	NP	15.30	0.00	27.74	17-Jun	925	6.78	24.8	1,761	1.3	-378.9	9.1	Clear, yellow tint	Yes	Yes	Yes	Yes		SA	SA	SA	-	SA	SA	-	-	SA	SA			SA			
NCL-31	Monitoring	CJH	137	208	NCL	16-Jun	1735	NP	12.17	0.00	20.16	17-Jun	1005	6.82	26.1	2,890	1.3	-278.6	6.3	Clear	Issue	Yes	Yes	Yes		SA	SA	SA	-	SA	SA	-	-	SA	SA			SA			
MW-19	Monitoring	CJH		209	NCL	16-Jun	1740	NP	12.45	0.00	22.08			Not in sampling program								Yes	Yes	Issue	Yes		SA	Not in sampling program													
MW-55	Monitoring	CJH/BRH	138	210	NCL	16-Jun	1015	NP	15.02	0.00	26.85	16-Jun	1040	6.58	18.8	3,280	1.9	72.3	7.7	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	SA	SA	SA	SA	SA	SA			SA				
RW-#17A ^e	Recovery ^d	CJH/GDS	139	211	REST	16-Jun	1755	NP	14.54	0.00	16.01	17-Jun	1510	8.02	22.3	8,270	2.9	-77.5	3.6	Clear	Yes	Yes	Yes	Yes		SA	A	A	A	A	A	-	-	A	A			A			
MW-18	Monitoring	CJH	140	212	NCL	16-Jun	1749	NP	14.14	0.00	22.20	17-Jun	1440	6.74	24.3	3,280	1.3	-242.5	3.6	Clear	Yes	Yes	Yes	Yes		SA	A	A	-	A	A	A	A	A			A				
MW-54A	Monitoring	CJH	141	213	NCL	16-Jun	930	NP	14.77	0.00	31.30	16-Jun	955	6.53	22.7	2,580	1.7	65.0	5.9	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	-	SA	SA	-	-	SA	SA			SA			
MW-54B	Monitoring	CJH		214	NCL	16-Jun	1010	NP	14.83	0.00	46.80										Yes	Yes	Yes	Yes		SA	B	B	B	B	B	-	-	B	B			B			
NCL-49	Monitoring	CJH	142	215	NCL	16-Jun	1020	NP	18.18	0.00	32.18	16-Jun	1045	6.87	23.3	3,630	1.9	133.7	4.2	Clear	Yes	Yes	Yes	Yes		SA	SA	SA	-	SA	SA	-	-	SA	SA			SA			
MW-53R	Monitoring	CJH		216	NCL	16-Jun	1110	MW-53 not located			23.6??			MW-53 was lost in previous construction; MW-53R has not yet replaced MW-53, 1H20												SA	A	A	-	A	A	-	-	A	A			A			
KWB-P3	Monitoring				Field E of Refinery			Not in gauging program					Not in sampling program														Not included in monitoring program due to distance from impacts														

Notes:

Abbreviations:

Footnotes:

- A = Annual (Mar/Apr event)

B = Biennial (starts Mar/Apr 2011)

BR = Bolton Road

DRO = Diesel Range Organics

E = East

EP = Evaporation Ponds

ft bgs = ft below ground surface

ft btoc = ft below top of casing

ft MSL = ft Mean Sea Level

GRO = Gasoline Range Organics

HR = Haldeman Road

in = inches

N = North

NA = Not accessible

NAPI = North API Separator

NCL = North Colony Landfarm

NE = Northeast
- NW = Northwest

OCD = Oil Conservation District

PSH = Phase Separated Hydrocarbon

ROW = right of way

RR = Richey Road

S = South

SA = Semi-annual (Mar/Apr and Sep/Oct events)

SE = Southeast

SW = Southwest

TMD = Three Mile Ditch

TEL = Tetra Ethyl Lead Impoundment

UG = Upgradient

US285 = U.S. Highway 285

US82 = U.S. Highway 82

VOC = Volatile Organic Compounds

W = West

Y = Yes

^a Well const. info. provided where available. TOC & ground surface elevs relative to benchmark G-416. Total depth based on 4/2010 measurements.

^b PSH was present during March 2012 gw monitoring event or a recovery pump is in place. Note that recovery wells are gauged at least monthly.

^c Analytical Suite to include the following:

1. Purge parameters to be measured and recorded in the field will include pH, temp, spec. cond., diss. oxy., and oxidation-reduction potential.

2. DRO by Method 8015Mod.

3. GRO by Method 8015Mod.

4. VOCs by Method 8260, to include methyl tert butyl ether (MTBE).

5. Total metals by Method 6010/6020 and/or 7470. Specific metals shown in heading, abbreviations from periodic chart (incl B, Cd, Co, U, per 3-7-16 State request).

6. Dissolved metals - same list as total metals but only analyzed during April event (field filtered by HMI)

7. Cyanide by Method SM4500.

8. Cations/anions to include Calcium, Potassium, and Sodium by Method 6010 or 6020 and Sulfate, Chloride and Fluoride by Method 300.

9. Nitrates/Nitrites as Nitrogen by Method 300.

10. Total Dissolved Solids by Method 2540C.

"-" indicates parameter not required.

Note - samples will not be collected from any well where PSH is measured to be 0.03 feet thick or greater.

^d Samples to be collected at frequency indicated only if <0.03 feet of PSH is present.

^e Recovery trenches 11, 15, 16, 17 and 18 have multiple vertical "wells". Gauging & sampling points are: RW #11-0, RW #15C, RW #16B, RW #17A and RW #18A.

= Well with recently gauged LNAPL (light nonaqueous phase liquid)

MW-53R (installed March 2020)replaced the formerly-destroyed MW-53, due to city road construction

**Hydrologic Monitoring**

1654 W. Sam Houston Pkwy. N.
Houston, Texas 77043

Phone 713.464.5206

Fax 713.464.5207

MEMORANDUM**Groundwater Monitoring Standard Operating Procedures
Navajo Refining LLC – Artesia, New Mexico**

HMI conducts low-flow groundwater sampling in accordance with the site Sampling and Analysis Plan and EPA guidance (including Puls and Barcelona, 1996 EPA Guidance on Low-Flow Groundwater Sampling; REV No. 4, September 19, 2017, and Yeskis & Zavala, 2002, EPA/542:S-02/00, Groundwater Sampling Guidelines for Superfund and RCRA Project Managers).

Groundwater Sampling Methodology

HMI conducts low-flow groundwater sampling using a peristaltic pump and dedicated polyethylene tubing at wells with requisite depths-to-water. At a limited number of wells with depths-to-water greater than peristaltic range, low-flow groundwater sampling is conducted using dedicated or non-dedicated bladder pumps. In 2016, at no cost to TRC, HMI installed HMI-owned bladder pumps in a limited number of wells (approximately four). At such time that HMI no longer conducts routine groundwater monitoring at the site, it respectfully requests the opportunity to recover these dedicated bladder pumps. Sample intakes are set at midscreen, when possible (generally at least two feet from the base of the well). Sample intake depths are permanently marked, ensuring future sampling events consistently monitor the targeted water-bearing interval. During sampling with a peristaltic pump, the sample tube is attached to the pump using a one-foot section of dedicated, flexible silicone tubing (item #5703, Geotech Environmental Equipment, Inc.). A two-foot segment of polyethylene tubing connects the silicone tubing in the pump to the flow-through cell, using a disposable segment of silicone tubing. Purging commences through a sealed flow-through cell at EPA-recommended purge rates (generally 0.1 to 0.2 liters/minute), while well drawdown is monitored. Groundwater field parameter readings are measured at 0.5-liter intervals (generally an equivalent of one cell-volume “turnover”). Field parameters of pH, specific conductivity, temperature, dissolved oxygen, and oxidation-reduction potential are monitored inside the cell. Turbidity is monitored outside the cell. Groundwater field instrumentation is calibrated and recorded daily in accordance with manufacturer specifications.

Purging continues until a requisite volume of groundwater is purged (generally a minimum of 3,000 ml or six flow-through cell volumes), and field parameters have stabilized in accordance with EPA guidance:

Water Quality Parameters (Stabilization Parameters in Accordance with EPA (2002), Groundwater Sampling Guidelines for Superfund and RCRA Project Managers, Yeskis & Zavala, EPA/542:S-02/001)

• pH	+/- 0.1 units;
• Temperature	-
• Conductivity	+/- 3%
• Dissolved Oxygen	+/- 0.3 mg/L
• ORP	+/- 10%
• Turbidity	10%

Immediately prior to sampling, the input tubing to the flow-through cell is disconnected from the disposable silicone receiving tubing on the input barb on the flow-through cell, and groundwater samples are collected directly into lab-supplied containers. Groundwater samples are placed in iced coolers, and remain in HMI's custody until shipped to ESC Lab Sciences via FedEx-overnight. Peristaltic tubes and/or dedicated bladder pumps may be dedicated in respective wells. Alternatively, dedicated tubing may be retrieved, bagged, labeled, and stored in tubs maintained at HMI. Wells with very limited water column thicknesses may be sampled with disposable bailers. Active recovery well and irrigation wells are sampled using sample ports. The purging and sampling process is documented on groundwater sampling field forms.

Cross-Contamination Prevention Program

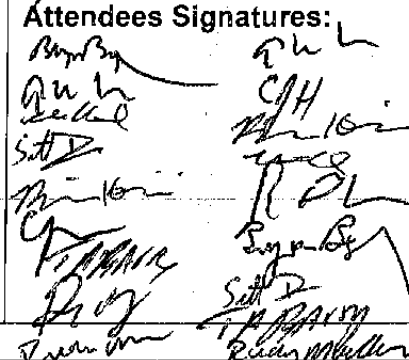
Dedicated peristaltic tubing and dedicated bladder pumps are used as possible, to minimize any potential cross-contamination issues during the groundwater monitoring process. Remaining non-dedicated equipment (e.g., electronic gauging probes or non-dedicated bladder pumps, etc.) is properly decontaminated prior to use and between wells. The decontamination procedure may include a combination of chemical and mechanical decontamination. For example, scrubbing with ethyl alcohol (isopropanol) as warranted, followed by scrubbing using an Alconox-water solution, and distilled water rinse. The decontamination procedure for non-dedicated bladder pumps consists of cycling an Alconox-water solution through the pump bladder. Distilled water is cycled through the pump bladder, followed by decontaminating the exterior body of the pump, using the methods outlined above.

HMI Deliverables

HMI provides field documentation of groundwater monitoring activities in a deliverables package that includes a brief narrative, summary table (with gauging data, field parameters, well inspection data, and required analytical scope), groundwater sampling forms, field instrument calibration log, and chain-of-custody forms (by Refinery "Area"), and a groundwater sampling SOP memo.



HYDROLOGIC MONITORING JOB HAZARD ANALYSIS

Activity: Groundwater Sampling	6/16/20 6/17/20 Date:
	Project: Navajo-Artesia GW Samp.
Description of the work: Collect fluid level information and water samples from monitoring wells.	Scott Ude Scott Ude Scott Ude Site Supervisor: Scott Ude Scott Ude Scott Ude Attendees Signatures: 
NOTE: All site workers have STOP WORK Authorization at any time site conditions change and/or become unsafe	

Work Activity Sequence	Potential Health and Safety Hazards	Hazard Controls
General Hazards	Accidents due to lack of training	- All workers will complete Safety Council Basic Plus Training and all site-specific training. - All workers will complete OSHA 40-hr HAZWOPER training with yearly updates. - Workers will be trained prior to performing new activities. - Tailgate safety meetings will be held daily.
	Head Injury	ANSI-approved hard hats will be worn at all times, in the manner they were designed (brim forward, no modifications no ball caps, etc.) Bump hats and Cowboy hard hats are not permitted.
	Hearing Damage	Workers will wear hearing protection whenever voices must be raised above normal conversational speech or when noise levels exceed 85 decibels due to loud noise sources such as working near heavy equipment.
	Hand Injury	Leather gloves will be worn when handling

Work Activity Sequence	Potential Health and Safety Hazards	Hazard Controls
		sharp, rough, or slippery surfaces. Appropriate gloves for chemicals will be worn per project HASP.
	Injuries resulting from manual lifting	- Workers will be instructed in safe lifting techniques (keep back straight, bend at knees, keep load close to body, lift smoothly, and do not twist at the waist. - Split heavy loads into smaller loads when possible. - Stretch before doing task - Make sure the path of travel is clear prior to the lift.
	Foot Injury	- Workers will wear sturdy leather safety-toed boots that reach the ankle at all times. - For wet conditions or for chemical hazards proper water resistant overboots or chemical resistant safety-toed boots must be worn.
	Eye Injury	- Workers will wear protective eyewear with sideshields that meet ANSI Z-87 at all times. If the worker wears prescription eyeglasses they must meet the same criteria or wear ANSI Z-87 safety over glasses. - Workers must have immediate access to Chemical monogoggles. Retaining rings are not permitted.
	Slips, trips, and falls	- Walking/working surfaces will be kept free of clutter, debris, and congestion to the greatest extent possible. - Personnel should be aware of wet/muddy surfaces and use caution. Use caution when traversing uneven ground.
	Injuries associated with insects, snakes, spiders, alligators, and poisonous plants	- Workers will wear snake chaps, leggings or sturdy rubber knee high boots when walking in uncleared, grassy areas. - Workers will avoid walking in areas where snakes or alligators may hide. Always look ahead where you are walking for signs of either. Use caution when moving or lifting objects that could be used for cover. Never reach under or behind objects, or into other areas where snakes or alligators may hide. - Workers will use insect repellent for all types of biting / stinging insects. Use care when opening wells to avoid bites and / or stings. - Workers will always use the buddy system and have a means of contacting emergency

Work Activity Sequence	Potential Health and Safety Hazards	Hazard Controls
		aid if needed by cell phone or Radio. Workers will immediately wash any areas that were exposed to poisonous plants.
	Chemical Exposure	- MSDS will be kept onsite in a location that all workers can access. - All workers must know where the emergency rally point is located when an evacuation alarm sounds in the plant. - Workers will sign in and out when they arrive and leave the work area.
	Heat Stress	- All workers will take routine breaks in a cool, shaded area. - Workers will drink plenty of water throughout the day. - Workers will decrease intake of coffee and caffeinated soft drinks during working hours.
	Vehicle accidents	- All vehicles must be inspected for safe operation onsite. - Vehicle operators must have a valid driver's license and will be instructed in safe operations while on the site. - Seat belts will be worn by all occupants. - When backing, use the buddy system or get out and look at position of objects. - All vehicles must contain a fire extinguisher, first aid kit, evacuation map, and route to hospital (map/directions). - Drivers will observe and not exceed posted plant speed limits. - Cell phone use is prohibited in a moving vehicle (drivers only) - hands free device not permitted. - Use caution at railroad crossings. - Watch for pedestrians walking into driving lanes.
	Injury due to inclement weather	- Outdoor work will cease during extreme weather conditions, such as electrical storms, high wind, rain, and dangerous temperatures. - All equipment will be shut down when lightning is visible. - Workers will seek shelter indoors when possible or stay in vehicles.
Groundwater Sampling	Collect Measurements and Samples	All site workers will wear proper PPE to prevent exposure to groundwater.

Work Activity Sequence	Potential Health and Safety Hazards	Hazard Controls
	Using peristaltic pumps	All workers using peristaltic pumps should inspect the power cord for damage before and after each use.
	Fire extinguishers	Fire extinguishers should be on hand and inspected.
	Lifting	All workers should use proper lifting techniques when lifting objects. Mechanical assistance may be used to lift objects weighing over 50 pounds.
	Drive All Terrain Vehicles	- All workers that will drive All-Terrain Vehicles (ATVs) will follow site specific policies regarding use and operation of ATVs. - In addition, conditions of ATV use will be addressed on Safe Work Permit(s). - All workers will be trained in operating the ATV. - The maximum speed limit is 5 miles per hour. - Read owners manual prior to operating - ATVs are not made for multiple riders. Never carry anyone else on the ATV. - Stay seated at all times while ATV is in motion. - Do not operate the ATV on streets, highways or paved roads. - Driver must have a valid driver's license. - Driver exercise caution when loading and unloading ATV.

Hydrologic Monitoring, LLC (HMI) Job Hazard Analysis (JHA) Job Safety Analysis (JSA) and Personal Protective Equipment (PPE) Assessment	6/16/20 Sum Ude 6/17/20 Sum Ude 6/18/20 Task Title: Mitigating Exposure to Coronavirus "COVID-19" <i>[Signatures]</i> Title: HMI employees, contractors, and visitors Supervisor (Print and Sign): <i>[Signature]</i> Title: HMI employees, contractors, and visitors	Date:  New: 4-7-20; Revised: Prepared by: HMI Contractor Safety and Crisis Support
Client Name / Site Location: HF / Artesia & Lowington	Locations: HMI-wide Business Unit: All	Reviewed By: HMI Committee Approved By: HMI Committee

Required or Recommended Personal Protective Equipment:

☐ Hard Hat
 ☒ Safety Glasses
 ☐ HiVis Vest
 ☐ Safety Toe Boots
 ☒ Gloves: Disposable, Work, etc based on task
 ☐ Hearing Protection
 ☒ Other: See below

For certain tasks (see JHA below) the following are required:

- Potable water and soap (preferable) or hand sanitizer with 60%+ alcohol
- Paper towels
- Disinfectant wipes
- Tissues
- Nitrile gloves
- Safety glasses or goggles
- Disinfectant spray list of cleaning products to kill Coronavirus

Diluted household bleach solutions can be used in place of disinfectant wipes or sprays if appropriate for the surface. Be sure to test the surface for color-fastness prior to use. Follow manufacturer's instructions for application and proper ventilation. Check that the product is not past its expiration date. Never mix household bleach with ammonia or other cleanser. Unexpired household bleach is effective against coronaviruses when properly diluted.

- Prepare a bleach solution by mixing:
 - 5 tablespoons (1/3rd cup) bleach per gallon of water or 4 teaspoons bleach per quart of water

This JHA applies to the 2019 Novel Coronavirus (SARS-CoV-2) or the disease known as "COVID-19". The Centers for Disease Control and Prevention (CDC), World Health Organization, (WHO), Occupational Safety and Health Administration (OSHA), and other public health agencies are considering the outbreak of COVID-19 to be a pandemic. It is important that employees, contractors, and visitors take standard precautions recommended by CDC and OSHA. For OSHA's guidance related to Hazard Recognition regarding COVID-19 visit <https://www.osha.gov/SLTC/covid-19/hazardrecognition.html>.

Risk Assessment: Incomplete information about incubation, infectious period, and transmissibility, as well as evolving circumstances make a definitive risk assessment challenging. In light of this, awareness and operationally informed precautions are warranted. Risk increases with increased exposure to persons potentially infected with COVID-19, warranting enhanced precautions described below. HMI will continue to monitor the situation closely in coordination with appropriate stakeholders and will adjust guidance as appropriate. HMI employees, contractors, and visitors should continue to maintain situational awareness for this outbreak.

Personnel should practice good hygiene, wash hands frequently, and cover their cough or sneeze. Stay away from work if you are ill and contact your health provider for guidance. Avoid unnecessary congregate settings where COVID-19 exposure is more probable. Keep your hands below your chin, and avoid touching mouth, eyes, nose and mucous membranes where contaminated hands can spread the disease to your respiratory system. These basic preventative measures reduce the exposure potential for personnel and slow the spread of communicable diseases.

While most COVID-19 lab confirmed cases do display symptoms, some persons may display mild or no symptoms. Symptoms may appear at different stages of the disease.

Operations/Contractor Work	Risk Category	Hazards	Protective Measures / PPE Guidance
1. Fitness for Duty (working from home or before reporting to work)	Low	1. Being unfit for duty – impacted by illness (e.g coronavirus)	1a. Check that you are fit for duty. If you feel unwell or show signs or symptoms of the coronavirus, do not come to work. Current CDC guidance is that if you have a temperature above 100.4 F [37.8 C], or in close contact with someone suspected of having the coronavirus, then you must stay home. If you have an elevated temperature, do not come to work and contact your healthcare provider. Also, contact your supervisor. By coming to work and onto the project site, employees are self-certifying that they do not have a temperature or show other signs of being unwell and are able to work within the guidelines of the CDC.
2. General Field Work	Low	2a. Working around others Signs and Symptoms of COVID-19 include; • Fever • Cough	2a. If experiencing signs or symptoms of COVID-19 infection, such as fever, dry cough, or other flu-like symptoms, do not report to work. If symptoms begin while at work, stop what you are doing immediately and contact your supervisor and an HMI Representative. HMI employees and/or their immediate supervisor are also to contact Human Resources immediately. Personnel and contractors shall maintain at least 6-foot distance from each other. Practice social distancing at tailgate meetings and in break rooms and job trailers.

		• Extreme Fatigue • Difficulty breathing • Other Flu Like Symptoms 2b. Encountering frequent touch points and shared equipment	Limit the number of people in job trailers and other confined areas so that this distance can be maintained. If possible, hold meetings outside. If indoors, open window(s) for circulation. Wipe down window handles prior to opening and use gloves to open. Even when practicing social distancing, limit the amount of people in groups to less than 10 people, or fewer if directed by a particular jurisdictional order. 2b. Wipe down and disinfect equipment before use with soap and water or alcohol wipes. Wear disposable gloves if possible or regularly wash hands when handling tools or equipment. Replace gloves regularly or wash hands, especially before eating or drinking. Clean hands often with soap and water for at least 20 seconds: • after using the restroom, • after you have been in a public place, • before and after eating, • after blowing your nose, coughing, or sneezing, • after smoking or vaping in designated areas. If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands, including around and under fingernails, and rub your hands together until they feel dry. Wear safety glasses and gloves (nitrile or other work gloves) to avoid contact and to reduce touching face, eyes, nose, and mouth. Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. Throw used tissues in the trash. Immediately wash or sanitize your hands.
		2c. Eating lunch and bathroom breaks	2c. Be sure to wash hands with soap and water whenever a bathroom is nearby. At minimum, do so during bathroom and lunch breaks. Use a paper towel to door handle when exiting bathroom. If using outside toilet facilities (i.e. Porta Johns), wash hands with soap and water or hand sanitizer both before and after opening or closing the door. If wearing nitrile gloves, change gloves prior to using the toilet and remove and dispose of them in a trash receptacle when finished. Use hand sanitizer after you dispose of the gloves. Where possible, personnel are encouraged to pack meals and snacks as needed for the duration of the work day and avoid visiting stores and restaurants. If necessary, modify your schedule to avoid restaurants and public restrooms during peak (i.e., crowded), periods to minimize contact with the public. Use drive-through service for

			food pick-up if available. When eating lunch as a group, try to do so outside or in a space with windows open. Wipe down windows prior to opening. Maintain a distance of at least 6 feet and do not share dishes (e.g., bag of chips, communal salad bowl, etc.). Refrain from sharing a field office coffee pot.
3. General Office Work	Low	3a. Working around others 3b. Encountering frequent "touch points" and handling shared equipment	3a. Work from home when possible. Clean hands often with soap and water for at least 20 seconds: • after using the restroom, • after you have been in a public place, • before and after eating, or • after blowing your nose, coughing, or sneezing. If soap and water are not readily available, use a hand sanitizer that contains at least 60% alcohol. Cover all surfaces of your hands, including around and under fingernails, and rub your hands together until your hands feel dry. Cover your mouth and nose with a tissue when you cough or sneeze or use the inside of your elbow. Throw used tissues in the trash. Immediately wash or sanitize your hands. Sit at least six feet apart from others. Change work stations to accommodate this. Even if you are practicing social distancing, you must still limit groups of people to 10 or fewer. Do not hold in-person meetings. After tailgate meetings and/or JHA reviews, supervisors should seek verbal agreement from each attendee and note each acknowledgement rather than passing around for signature. Make hand-sanitizers, sanitizing wipes, and other hygienic supplies readily available. Do not eat or hang out in common areas. 3b. Wipe down keyboards, mouse, phone, headset/headphones, and other "touch points". Limit contact of shared items. Wipe down surfaces before coming into contact with them. Wash hands after handling or wear disposable gloves. In reception areas, use your own pen to sign in and out of offices. Do not eat candy out of candy dishes.

			Assign someone to clean and disinfect frequently touched surfaces daily. Follow the manufacturer's instructions for cleaning and disinfection products (e.g., concentration, application method, and contact time).
4. Essential Work (deemed by Operations, Project Manager, EHS) where a continued 6 foot distance between persons is not possible.	Low-Medium	4a. Examples such as Operation and Maintenance tasks, groundwater and potable water monitoring, ballast water sampling, post-closure care services, etc.	4a. Mitigation tactics such as cloth face covers, face shields, gloves, facing away from another person, etc. must be implemented.

Additional Information

Prior to starting work, check that required supplies (i.e., disinfectant spray and wipes, soap, hand sanitizer, nitrile gloves) are available. Request re-supply if stock runs low.

Use alcohol-based hand sanitizer that contains at least 60% alcohol. Wash hands with soap and water whenever available. Remember that soap, including bar soap, is generally available and is considered superior to hand sanitizer or disinfectant wipes and sprays. If disinfectants are unavailable, prepare diluted bleach solution as described on page 1 and use in their place.

Common touch points and surfaces include but are not limited to:

- *Arms on chairs *Table tops *Doorknobs and handles *Countertops *Elevator Buttons *Coffee Pots
- *Refrigerator, microwave, dishwasher, toaster handles *Water Dispensers *Cabinet and file drawer knobs and handles
- *Phone receivers, keypads *Copier, printer, and fax control buttons *Sink faucets *Light switches
- *Shared office supplies such as staplers, paper cutters, scissors, packaging tape dispensers, writing utensils *Vehicle handles, tailgates, etc.

If personnel are showing possible symptoms of or have been in recent direct contact with others showing symptoms of coronavirus, stop work and notify the site supervisor and HR.

Visit the CDC webpage on cleaning and disinfecting procedures: [CDC Guidance for Community and Residential Cleaning-Disinfection for Coronavirus](#)

A list of approved disinfectants for use against COVID-19, is available here: [US EPA List of Disinfectants Effective Against Coronaviruses.](#)

Special Considerations:

④

Well Purging Record

Well Sampling Record

[illegible]

Gauge only

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-63

Event: H2O

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
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At-Grade 2-in ✓ PVC ✓

Upright	☒	4-in		SS
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Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: JMB

②

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1115	NP	1147	0.00	52.28	47.3	Y ₂	Y ₂	Y ₂	Yes		Weather: Partly Cloudy 80's

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

③

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-86

Event: 1420

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade 2-in PVC ☒

Upright ✓ 4in ✓ SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection information

Initials: M. J. S.

4

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1300	NP	8.30	0.00	19.21	17.21	Yes	Yes	Yes	Yes		Weather: 11ea 90's
6-17-20	1350	NP	8.26	0.00								

Well Purging Record

* Remove oil - Sorbent sack and allowed well to equilibrate prior to weighing

[illegible]

Well Sampling Record

[illegible]

5

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

⑥

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-84

Event: JH20

Area of Concern: EP

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☐	PVC ☒
Upright ☒	4-in ☒	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: FWB

⑦

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1755	NP	9.49	0.00	20.56	15.2	Yes	Yes	Yes	Yes		Weather: St-Cloudy 90's
6-17-20	1305	NP	9.46	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

8

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
 Artesia, New Mexico

Well: MW-81

Event: $iH2O$

Area of Concern: EP

Completion	Casing Diam.	Casing Material
At-Grade ☐ 2-in ☐	PVC ☒	
Upright ☒ 4-in ☒	SS ☐	
Vault ☐ Other ☐	Other ☐	

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: MLB

⑨

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1735	NP	9.25	8.00	18.62	13.7	Yes	Yes	Yes	Yes		Weather: Clear 80's
6-17-20	1000	NP	9.20	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

(10)

[illegible]

(12)

[illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☐	PVC ☒
Upright ☒	4-in ☒	SS ☐
Vault ☐	Other ☐	Other ☐

(13)

Well Purging Record

Well Sampling Record

[illegible]

14

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

15

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample.

Gauge Only

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-2B

Event: 1H20

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
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At-Grade 2-in ✓ PVC ✓

Upright ☒ 4-in SS

Vault	Other	Other
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Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *MLB*

16

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

17

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

18

Initials MLD[illegible]

19

[illegible]

Gauge Only

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: OCD-7B

Event: 1H20

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade 2-in ✓ PVC ✓

Upright ✓ 4-in SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *MDL*

(20)

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

Gauge Only

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: OCD-7C

Event: IH20

Area of Concern: EP

Monitoring Well Purging and Sampling Record (Not in "Sampling" Program)

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: **MDR**

(a)

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Annually - bagged tube + guidance device

Monitoring Well Purging and Sampling Record (Tool Co. locks gate by 5:00 PM)

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico **Ar**

Well: RW-#15C

Event: 1 H2O

Area of Concern: **REST**

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☐	PVC ☒
Upright ☐	4-in ☐	SS ☐
Vault ☒	Other ☒	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: MOB

22

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

23

Initials: *MD*

2 At-grade plank missing, At-grade pad cracked
see H419: completion needs complete re-do

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

25

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

26

[illegible]

27

[illegible]

28

[illegible]

**Hydrologic Monitoring
for TRC
Houston, Texas**

29

[illegible]

[illegible]

31

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+ Dup-EP-03
(same analysis)

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: SCD

32

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-88

Event: 1420

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade 2-in PVC ☒

Upright ✓ 4in ✓ SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initiale: SCD

33

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1700	NP	9.00	0.00	20.31	14.8	Yes	Yes	Yes	Yes	Issue	Weather: Pt. Cloudy 90's

Well Purging Record

* Issues with pad; hole in west side of pad well remains functional

[illegible]

Well Sampling Record

[illegible]

+ DUP-EP-02
(same analysis)

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: SCD

34

Well Purging Record

Well Sampling Record

[illegible]

Gauge Only

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-223

Event: 1420

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade 2-in ✓ PVC ✓

Upright ✓ 4-in SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: SCD

35

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1748	M	7.72	0.00	54.66	49.7	Yes	Yes	Yes	Yes		Weather: Pt. Cloudy 90's Pt. Cloudy 90's
6/17/20	1100	NP	7.70	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

36

[illegible]

37

Well Purging Record

Well Sampling Record

[illegible]

38

[illegible]

Gauge only

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-4B

Event: 1120

Area of Concern: FP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>

At-Grade	2-in	✓	PVC	✓
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Upright ✓ 4-in SS

Vault	Other	Other
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Hydrologic Monitoring

for TRC

Houston, Texas

Initials: SCID

39

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+EB-EP-03
(same analysis)

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: **SD**

40

Well Purging Record

Well Sampling Record

[illegible]

Gangst Only

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-5B

Event: jH20

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
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At-Grade 2-in ✓ PVC ✓

Upright ☒ 4-in ☐ SS ☐

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: SCD

41

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1515	NP	S. DB	0.00	53.54	48.5	Yes	Yes	Yes	Yes		Weather: Pt. Cloudy 90's

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Gauge Only

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-5c

Event: IH20

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
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Al-Grade	2-in	✓	PVC	✓
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Upright ☒ 4-in SS

Vault	Other	Other
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Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: SCD

(42)

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+ Dup - EP - 01
(same analysis)

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: SCD

(43)

Well Purging Record

Well Sampling Record

[illegible]

Gauge Only

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-7B

Event: H2O

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade_ 2-in ✓ PVC ✓

Upright ☒ 4-in SS

Vault	Other	Other
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Hydrologic Monitoring

for TRC

Houston, Texas

Initials: SCD

(44)

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/14/20	1415	N/A	8.52	0.00	52-56	47.6	Yes	Yes	Yes	Yes		Weather: Pt. Cloudy 90's

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+ Trip Blank - EP-02

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: **SCD**

45

Well Inspection Information

Well Purging Record

Well Sampling Record

[illegible]

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Event: 1H20

Area of Concern: EP

Completion	Casing Diam.	Casing Material
At-Grade ☐ 2-in ☒	PVC ☒	
Upright ☒ 4-in ☐	SS ☐	
Vault ☐ Other ☐	Other ☐	

**Hydrologic Monitoring
for TRC
Houston, Texas**

Initials: SCD

46

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1310	NP	7.98	0.00	56.65	51.7	Yes	Yes	Yes	Yes		Weather: H. Cloudy 80S

Well Pumping Record

[illegible][illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

(47)

Well Purging Record

Well Sampling Record

[illegible]

48

[illegible]

49

[illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

50

Well Purging Record

Well Sampling Record

[illegible]

51

Initials: **BRH**

Well Purging Record

Well Sampling Record

[illegible]

+ Trip Blank - EP-03

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: BRH/DJD (52)

Well Purging Record

Well Sampling Record

[illegible]

Houston, Texas

Initials: BRH/BJD (53)

Well Purging Record

Well Sampling Record

[illegible]

Gauge Only

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: OGD-2B

Event: jHz0

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade 2-in ✓ PVC ✓

Upright ☒ 4-in SS

Vault	Other	Other
-------	-------	-------

(Not in "Sampling" Program)

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: **BRH**

54

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Released to Imaging: 11/22/2022 9:31:39 AM

[illegible]

Gauge Only

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-113

Event: 1H20

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade 2-in ✓ PVC ✓

Upright ☒ 4-in ☐ SS ☐

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: BZH

58

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Initials: BRH/OSD (59)

[illegible]

60

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

61

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

62

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Gauge Only

Navajo Refining Company
Artesia Refinery
 Artesia, New Mexico

Well: MW-18T
Event: 1H2O
Concern: EP

Monitoring Well Purging and Sampling Record (Not in "Sampling" Program)

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Houston, Texas

Well Inspection Information

Initials: BZH

63

[illegible]

Well Purgings Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-70

Event: 1120

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade 2-in PVC ☒

Upright ☒ 4-in ☒ SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: **BRH**

64

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1500	NP	8.02	0.00	22.05	10.8	Yes	Yes	Yes	Yes		Weather: Sunny, 90s
↓	1735	NP	8.02	0.00								

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-124

Event: 1H20

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade	2-in	✓	PVC	✓
----------	------	---	-----	---

Upright ☒ 4-in ☐ 5-in ☐ 6-in ☐ 8-in

Vault	Other	Other
-------	-------	-------

+ EB-EP-02
(same analysis)

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: **BRH**

65

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water: (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1510	NP	8.92	0.00	22.00	17.0	Yes	Yes	Yes	Yes		Weather: Sunny, 90s
6	1645	NP	8.92	0.00								

Well Purging Record

Well Sampling Record

Driveway near bldg. A/C unit

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: MW-52

Artesia Refinery

Event: jH20

Artesia, New Mexico

Area of Concern: REST

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade ✓ 2-in ✓ PVC ✓

Upright 4-in SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well inspection information

initials: **BRH**

(66)

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1120	NP	20.83	0.00	34.67	29.5	Yes	Yes	Yes	Yes		Weather: Pt. cloudy, 90s
6-17-20	1255	NP	20.84	0.00								

Well Purging Record

[illegible]

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03"; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

E. side of blue bldg.

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-109

Event: 1H20

Area of Concern: REST

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade ✓ 2-in ✓ PVC ✓

Upright -- 4-in SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: BZJ

67

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1115	NP	18.89	0.00	29.48	25.5	Yes	Yes	Yes	Yes		Weather: Sunny, 90°
6-17-20	1210	NP	18.91	0.00								

Well Purging Record

[illegible]

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

69

Initials: **BZH**

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.93'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Gauge Only

Navajo Refining Company	
Artesia Refinery	
Artesia, New Mexico	Ar

Well: MW-69

Event: 1170

Area of Concern: EP

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
At-Grade	2-in	PVC
Upright	4-in	SS
Vault	Other	Other

Located N. of river

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: **BRH**

70

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

Gauge Only

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-12
Event: 1H2O
Concern: EP

Completion	Casing Diam.	Casing Material
At-Grade <u> </u>	2-in <u> </u>	PVC <u>✓</u>
Upright <u>✓</u>	4-in <u>✓</u>	SS <u> </u>
Vault <u> </u>	Other <u> </u>	Other <u> </u>

Located N. of river

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: **BZH**

71

[illegible]

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

72

Well Purging Record

Well Sampling Record

73

[illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: ZJm

74

Well Purging Record

Well Sampling Record

[illegible]

+ Dup - Rest - DI (same analyses)
+ EB - Rest - OI (same analyses)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: JB/BRT

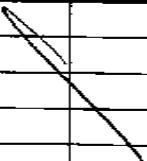
75

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

76

Date	Time	Sample I.D.	Depth to Water (ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		KWB-8								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample												

77

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

78

Initials: *BS*

* Likely well base @ 21.98' per Navajo

Well Sampling Record

[illegible]

Initials:

[illegible]

**Hydrologic Monitoring
for TRC
Houston, Texas**

81

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Hydrologic Monitoring
for TRC
Houston, Texas

82

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+TB-Res+-ol

+ Dup-Res-03 (same analyses)
+ EB-Res-03 (same analyses)

Hydrologic Monitoring

for TRC

Houston, Texas

83

Well Purging Record

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Initials: BD (84)

Irrigation well
Inside green, black bldg.
No purge; sample port (faucet)

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico **Ar**

Well: RA-4196

Event: 1H20

Area of Concern: **REST**

Well Inspection Information

(Screen: 280-292)

Irrigation well)
Inside green, black bldg.
No purge; Sample port (faucet)

**Hydrologic Monitoring
for TRC
Houston, Texas**

Initials: **RB**

(85)

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

(86)

Initials:

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

**Hydrologic Monitoring
for TRC
Houston, Texas**

87

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

E. of mw-101; across street

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: RA-313

Artesia Refinery

Event: 1420

Artesia, New Mexico

Area of Concern:

REST

Irrigation and water-supply
purpose, per Navajo

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

(Screen: 904-1157)

Initials: BS / RM

(88)

[illegible]

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

89

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-135
Event: 1H20
Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☒	2-in ☒	PVC ☒
Upright ☐	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

**Hydrologic Monitoring
for TRC
Houston, Texas**

Well Inspection Information

Initials:

90

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1730	NP	30.71	0.00	65.55	50.0	Yes	Yes	Yes	Yes		Weather: Sunny 90°
6/17/20	1355	NP	30.68	0.00								

Well Purging Record

Well Sampling Record

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico **Ar**

Well: MW-20
Event: 1H20
Concern: TMD

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

**Hydrologic Monitoring
for TRC
Houston, Texas**

Well Inspection Information

Initials: RJS m

91

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1621	NP	17.08	0.00	26.66	21.9	Yes	Yes	Yes	Yes		Weather: Sunny 90's
6.17.20	1210	NP	17.10	0.00								

Well Purging Record

Well Sampling Record

Gauge Only

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: NP-3

Event: i H2O

Area of Concern: TMD

Monitoring Well Purging and Sampling Record (Not in "Sampling" Program)
P-3

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade	2-in	✓	PVC	✓
----------	------	---	-----	---

Upright ✓ 4-in SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: **BD**

92

Well Inspection Information

[illegible]

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Gauge Only

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: NP-2

Event: JH20

Area of Concern: YMD

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade	2-in	✓	PVC	✓
----------	------	---	-----	---

Upright ☒ 4-in SS

Vault	Other	Other
-------	-------	-------

(Not in "Sampling" program)

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: B D

94

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

**Hydrologic Monitoring
for TRC
Houston, Texas**

95

[illegible]

Gauge Only

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: NP-6

Event: 1420

Area of Concern: TMD

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade	2-in	✓	PVC	✓
----------	------	---	-----	---

Upright ☒ 4in SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: **BB**

96

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+ Trip Blank - TMD-01

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: ZJM

98

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6-16-20	1752	NP	15.21	0.00	25.12	19.9	Yes	Yes	Yes	Yes		Weather: Sunny, 90's
6-17-20	1010	NP	15.22	0.00								

[illegible][illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
At-Grade	2-in ☒	PVC ☒
Upright	☒ 4-in	SS
Vault	Other	Other

Initials: *AB*

99

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-7

Event: 1Hz0

Area of Concern: TMD

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

**Hydrologic Monitoring
for TRC
Houston, Texas**

Well Inspection Information

Initials:

100

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1740	NP	16.63	0.20	21.67	16.9	Yes	Yes	Yes	Yes		Weather: Sunny 90's
6/17/20	1350	NP	16.61	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

**Hydrologic Monitoring
for TRC
Houston, Texas**

101

[illegible]

**Hydrologic Monitoring
for TRC
Houston, Texas**

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-89

Event: iH20

Area of Concern: TMD

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade	2-in	PVC	✓
----------	------	-----	---

Upright ☒ 4-in ☒ SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: **RB**

103

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1703	NP	12.62	0.00	20.28	15.2	Yes	Yes	Yes	Yes		Weather: Sunny 80°
6/17/20	1015	NP	12.62	0.00								

Well Purging Record

Well Sampling Record

Hydrologic Monitoring
for TRC
Houston, Texas

(104)

Hydrologic Monitoring
for TRC
Houston, Texas

105

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Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: KW3-11B

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

Hydrologic Monitoring

Artesia Refinery

Event: 1420

At-Grade 2-in PVC

for TRC

Artesia, New Mexico

Area of Concern:

Upright ☒ 4 in ☒ SS

Houston, Texas

REST

Vault	Other	Other
-------	-------	-------

Initials: RL

107

Well Inspection Information

[illegible]

Well Purging Record

* (severely cracked pad same as last events. needs new pad)

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Removed from Program by Navajo,
4-13-15

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: KW 8-3AR

Event: 1470

Area of Concern: REST

Monitoring Well Purging and Sampling Record (Former Jack Jay 575-365-6042)

(Former Jack Jay 575-365-6042)

Hydrologic Monitoring

for TRC

Houston, Texas

(108)

Well Inspection Information

Initials:

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03"; if LNAPL thickness is measured at 0.01" or 0.02", remove LNAPL, and collect groundwater sample

ATV- S. Ro Field

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-115

Event: H2O

Area of Concern: REST

<u>Completion</u>	<u>Casino</u>	<u>Diam.</u>	<u>Casino Material</u>
1970	1970	1970	1970
1971	1971	1971	1971
1972	1972	1972	1972
1973	1973	1973	1973
1974	1974	1974	1974
1975	1975	1975	1975
1976	1976	1976	1976
1977	1977	1977	1977
1978	1978	1978	1978
1979	1979	1979	1979
1980	1980	1980	1980
1981	1981	1981	1981
1982	1982	1982	1982
1983	1983	1983	1983
1984	1984	1984	1984
1985	1985	1985	1985
1986	1986	1986	1986
1987	1987	1987	1987
1988	1988	1988	1988
1989	1989	1989	1989
1990	1990	1990	1990
1991	1991	1991	1991
1992	1992	1992	1992
1993	1993	1993	1993
1994	1994	1994	1994
1995	1995	1995	1995
1996	1996	1996	1996
1997	1997	1997	1997
1998	1998	1998	1998
1999	1999	1999	1999
2000	2000	2000	2000
2001	2001	2001	2001
2002	2002	2002	2002
2003	2003	2003	2003
2004	2004	2004	2004
2005	2005	2005	2005
2006	2006	2006	2006
2007	2007	2007	2007
2008	2008	2008	2008
2009	2009	2009	2009
2010	2010	2010	2010
2011	2011	2011	2011
2012	2012	2012	2012
2013	2013	2013	2013
2014	2014	2014	2014
2015	2015	2015	2015
2016	2016	2016	2016
2017	2017	2017	2017
2018	2018	2018	2018
2019	2019	2019	2019
2020	2020	2020	2020
2021	2021	2021	2021
2022	2022	2022	2022
2023	2023	2023	2023
2024	2024	2024	2024
2025	2025	2025	2025
2026	2026	2026	2026
2027	2027	2027	2027
2028	2028	2028	2028
2029	2029	2029	2029
2030	2030	2030	2030
2031	2031	2031	2031
2032	2032	2032	2032
2033	2033	2033	2033
2034	2034	2034	2034
2035	2035	2035	2035
2036	2036	2036	2036
2037	2037	2037	2037
2038	2038	2038	2038
2039	2039	2039	2039
2040	2040	2040	2040
2041	2041	2041	2041
2042	2042	2042	2042
2043	2043	2043	2043
2044	2044	2044	2044
2045	2045	2045	2045
2046	2046	2046	2046
2047	2047	2047	2047
2048	2048	2048	2048
2049	2049	2049	2049
2050	2050	2050	2050
2051	2051	2051	2051
2052	2052	2052	2052
2053	2053	2053	2053
2054	2054	2054	2054
2055	2055	2055	

At-Grade 2-in ✓ PVC ✓

Upright: ☒ 4-in SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: BB

(109)

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

ATV - S. RG Field

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico *Ar*

Monitoring Well Purging and Sampling Record

Well: MW-114

Event: JH20

Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: BR

110

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

ATV - S. Ro Field (mesquite!!)

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: MW-125

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

Artesia Refinery

Event: H2O

Al-Grade 2-in ✓ PVC ✓

Artesia, New Mexico

Area of Concern:

Upright ☒ 4-in ☐ SS ☐

REST

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: **BTB**

iii

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

(112)

[illegible]

**Hydrologic Monitoring
for TRC
Houston, Texas**

113

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Completion	Casing Diam.	Casing Material
At-Grade	2-in ✓	PVC ✓
Upright	✓ 4-in	SS
Vault	Other	Other

Initials: *435*

114

[illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

115

Date	Time	Sample I.D.	Depth to Water (FL-TOC)	pH (std units)	T (°C)	SC ($\mu\text{mho/cm}$)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
6/16/20	945	MW-119	16.10	7.06	19.7	6470	1.4	105.3	7.1	Per COC	Per COC	Lab: Pace National, ML Juliet, TN
✓	945	Rd Fields Program (2020) MW-119								Per COC	Per COC	
												No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

116

[illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

117

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-126A

Event: 1H2O

Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Initials:

(118)

Well Inspection Information

Date	Time	Depth to LNAPI (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	We.I Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1440	NP	20.60	0.00	37.51	29.5	Yes	Yes	Yes	Yes		Weather: Sunny, 80's

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

**Hydrologic Monitoring
for TRC
Houston, Texas**

119

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

* No sale present

Houston, Texas

120

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

**Hydrologic Monitoring
for TRC
Houston, Texas**

Initials: *WJ*

Well Purging Record

Recompleted at-grade prior to I-420 event

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+ EB-20-01

Hydrologic Monitoring
for TRC
Houston, Texas

Area of Concern: REST

Initials: SCU

(122)

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Initials:

Ans

123

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02'; remove LNAPL, and collect groundwater sample

Artesia, New Mexico

Area of Concern:

Vault Other Other

Houston, Texas

124

Well Purging Record

Well Sampling Record

[illegible]

Gauge Only

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: KW3-1C

Event: 1420

Area of Concern: REST

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade	2-in	PVC	✓
----------	------	-----	---

Upright ☒ 4 in ☒ SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *WJS*

125

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: KWB-10R

Artesia Refinery

Event: iH2o

Artesia, New Mexico

Area of Concern: REST

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade ✓ 2-in PVC ✓

Upright 4-in ☒ SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *CS*

126

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-131
Event: 1H20
Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

**Hydrologic Monitoring
for TRC
Houston, Texas**

Initials: *CS*

(127)

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-111
Event: 1H20
Concern: BEST

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

4 Upon final arrival, tubing / bladder pump were removed. AMI "fished" bladder pump Hydrologic Monitoring from base of well and for TRC installed new tubing. Houston, Texas

Initials: *WOS*

129

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1725	ND	27.05	0.00	40.83	35.8	Yes	Yes	Yes	Yes		Weather: Sunny, 80's
6/17/20	1020	NA	26.99	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

1/2 No sock present

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *LY*

130

[illegible][illegible][illegible]

NO sock present

**Hydrologic Monitoring
for TRC
Houston, Texas**

131

Well Purging Record

Well Sampling Record

[illegible]

✓ NO sock present

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: *aps*

132

Well Purging Record

Well Sampling Record

[illegible]

~ 32" corrugated stickup

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: RW-#11-0

Event: *iH2O*

Area of Concern: REST

Completion: Casing Diam. Casing Material

At-Grade	2-in	PVC
----------	------	-----

Upright ☒ 4-in SS

Vault ☐ Other 32-in Other ☒ Corrugated pipe

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: WJS

(134)

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

(136)

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: KW B-12 B
Event: IH20
Concern: BEST

Completion	Casing Diam.	Casing Material
At-Grade ☒	2-in ☐	PVC ☒
Upright ☐	4-in ☒	SS ☐
Vault ☐	Other ☐	Other ☐

- + Dup-Rest-05 (same analysis)
- + EB-Rest-05 (same analysis)
- + Trip Blank-Rest-02

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: **051**

(137)

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Hydrologic Monitoring
for TRC
Houston, Texas

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[illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

139

[illegible]

Monitoring Well Purging and Sampling Record

Hydrologic Monitoring

for TRC

Houston, Texas

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Well Inspection Information

Well Purging Record

* Top of pump @ 27.40'

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample.

Sign-in & permit from South Crude
Control Room prior to entry

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-103

Event: 147.0

Area of Concern: REST

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade 2-in PVC ✓

Upright ☒ 4-in ☒ SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: *LV*

(141)

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Bagged tube; stretch to outside of berm

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-64

Event: 1420

Area of Concern: REST

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade	2-in	PVC	✓
----------	------	-----	---

Upright ☒ 4-in ☒ SS

Vault	Other	Other
-------	-------	-------

(Sack removed; replaced with sample)
Hydrologic Monitoring
for TRC
Houston, Texas

Houston, Texas

Well Inspection Information

Initials: **SC4**

(143)

[illegible]

Well Purging Record

* Removed w/ absorbent pad prior to sampling

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample.

Bagged tube: Located in front of Navajo storage shed.

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: MW-65

Artesia Refinery

Event: H₂O

Artesia, New Mexico

Area of Concern:

BEST

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade ✓ 2-in PVC ✓

Upright 4-in ✓ \$5

Vault Other Other

Saturated sock should be replaced w/ new sock w/ slightly shorter cord
please - SCN 6/16/00 Initials: S

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *SCY*

(144)

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Gauge to top of guide-pipe

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: RW-5R

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

Hydrologic Monitoring

Artesia Refinery

Event: 1470

At-Grade	2-in	PVC	✓
----------	------	-----	---

for TRC

Artesia, New Mexico

Area of Concern: **REST**

Upright	4-in	SS
---------	------	----

Houston, Texas

Well Inspection Information

Initials: *SL*

145

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1605	22.60	24.32	1.72	NM	24.0	Yes	Yes	Yes	Yes		Weather: 2/Bar, 90S
					[pump in well]; reported total depth = 35. 30 Ft-TOC)							

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Bagged tube; do not dedicate, per
historical observations.

Navajo Refining Co
Artesia Refinery
Artesia, New Mexico

Well: MW-102
Event: H2O
Area of Concern: REST

Monitoring Well Purging and Sampling Record

Completion	Casing Diam.	Casing Material
At-Grade	2-in	PVC
Upright	4-in	SS
Vault	Other	Other

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

146

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

Bagged tube.

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: RW-4

Event: IH70

Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade	2-in	PVC
Upright	4-in	SS
Vault	Other	Other

Hydrologic Monitoring
for TRC
Houston, Texas

Bracket to hold doghouse top
open is damaged;
prop open w/ pry bar

Initials: **SLY**

(147)

Well Inspection Information

(Recovery Well) Doghouse

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1722	NP	15.05	0.00	36.42	31.6	Yes	Yes	Yes	Yes		Weather: pt Cloudy, 90s
6/17/20	850	NP	15.08	0.00								

Well Purging Record

- * Gauge / Sample through labeled guide-pipe.
- * Drawdown not measured (narrow diam guide-pipe)

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

148

- * Gauge/Sample through labeled guide-pipe
- * Drawdown not measured (narrow diam. guide-pipe)

Well Sampling Record

[illegible]

Position marked on adjacent fence;
Well is ~4' N. of chainlink fence;
Possibly covered by gravel/silt.
Navajo Refining Company Well: M

Monitoring Well Purging and Sampling Record

Navajo Refining Company Well: MW-99
Artesia Refinery Event: IR20
Artesia, New Mexico Area of Concern: REST

Completion	Casing Diarr.	Casing Material
At-Grade ☒	2-in ☐	PVC ☒
Upright ☐	4-in ☒	SS ☐
Vault	Other	Other

**Hydrologic Monitoring
for TRC
Houston, Texas**

Well Inspection Information

Initials: *Scn*

(149)

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1731	NP	20.07	0.00	27.80	22.8	Yes	Yes	Yes	Yes		Weather: pt. cloudy, 90s
6/17/20	1720	NP	20.10	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

Middle of gravel road; location marked on adjacent chain-link fence.
Navajo Refining Company **Well:**
 Artesia Refinery **Event:**
 Artesia, New Mexico **Area of Concern:**

Monitoring Well Purging and Sampling Record

Well: MW-66

Completion	Casing Diam.	Casing Material
At-Grade ☒	2-in ☐	PVC ☒
Upright ☐	4-in ☒	SS ☐
Vault	Other	Other

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: SLM

150

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1738	NP	19.34	0.00	29.80	24.6	YES	YES	YES	YES		Weather: p.t. cloudy, 80s
6/17/20	1220	NP	19.36	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Hydrologic Monitoring
for TRC
Houston, Texas

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[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-100

Event: *1H2O*

Area of Concern: REST

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade	2-in	PVC	✓
----------	------	-----	---

Upright ☒ 4-in ☒ SS

Vault	Other	Other
-------	-------	-------

+ Dup-REST-04 { same analysis }
+ EB-REST-04 { same analysis }

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *SLH*

153

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1755	NP	17.95	0.00	37.78	26.7	Yes	Yes	Yes	Yes		Weather: pt cloudy, 90s
6/17/20	1120	NP	17.98	0.00								

Well Purging Record

[illegible]

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (FL-TOC)	pH (std units)	T (°C)	SC ($\mu\text{mho/cm}$)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	Parameter	PRESERV	Comments
6/17/20	1145	MW-60	18.25	6.57	27.7	3560	2.9	-303.0	5.6	Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
	1000	DP-RW-04	18.25	6.57	27.7	3560	2.9	-303.0	5.6	same	same	
↓	1205	EP-RW-04	NA							→ same	same	

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample.

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

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No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Located 15' NW of NW corner of berm;
Commonly buried by gravel/silt

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: MW-128

Artesia Refinery

Event: 1420

Artesia, New Mexico

Area of Concern: REST

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade ✓ 2-in ✓ PVC ✓

Upright 4-in SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *SL*

(155)

Well Inspection Information

[illegible]

Well Purging Record

4/11-Grade; under dirt/gravel

[illegible]

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (°C)	SC ($\mu\text{mho/cm}$)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
		mw-128								Per COC	Per COC	Lab: Pace National, ML Juliet, TN
No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample.												

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02'; remove LNAPL, and collect groundwater sample

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Well Purging Record

Well Sampling Record

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-46R

Event: [H2O

Area of Concern: TMD

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade ✓ 2-in ✓ PVC ✓

Upright 4-in SS

Vault Other Other

N. side of dirt road; in-line with westernmost row of pecan trees; Position marked on adjacent chain-link fence (12' S. of fence.)

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: *SL*

157

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1820	NP	13.33	0.00	19.36	14.1	Yes	Yes	Yes	Yes		Weather: pt. cloudy, 90s
6/17/20	1320	NP	13.36	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

Furthest west "City Well"

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: UG-3 R

Event: 1420

Area of Concern: REST

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade ✓ 2-in PVC ✓

Upright 4-in ✓ SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: SCW

158

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Location @ North-side park

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: UG-4

Artesia Refinery

Event: 1420

Artesia, New Mexico

Area of Concern: REST

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
-------------------	---------------------	------------------------

At-Grade ✓ 2-in ✓ PVC ✓

Upright 4-in SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: SCW

159

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/15/20	1655	NP	19.58	0.00	39.24	34.5	Yes	Yes	Yes	Yes		Weather: clear, 90.5

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

North of elementary school

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: UG-1

Artesia Refinery

Event: iH2O

Artesia, New Mexico

Area of Concern: REST

Completion	Casing Diam.	Casing Material

At-Grade ✓ 2-in ✓ PVC ✓

Upright 4-in SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: SCU

160

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Located near E-W alley, NW of
Artasia Hotel

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: UG-2

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

Hydrologic Monitoring

Artesia Refinery

Event: 1H20

At-Grade ✓ 2-in PVC ✓

for TRC

Artesia, New Mexico

Area of Concern: REST

Upright 4-in ✓ SS

Houston, Texas

Well Inspection Information

Initials: SCW

(16)

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+ Trip Blank - Rest - 04

**Hydrologic Monitoring
for TRC
Houston, Texas**

Initials: 25m

162

Well Purging Record

* Converted to at-grade completion prior to IHZO event

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

163

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Located in "Doghouse";
Bogged tube

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: RW-2

Event: 1H2O

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade	2-in	PVC	✓
----------	------	-----	---

Upright ✓ 4-in ✓ SS

Vault Other Other

Monitoring Well Purging and Sampling Record

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: TAZ

164

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/10	1530	15.02	15.33	0.51	36.13	31.1	yes	yes	yes	yes		Weather: Clear 95°

Well Purging Record

* Gauge/sample through labeled 1-in guide-pipe

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

(165)

[illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

(166)

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

167

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Hydrologic Monitoring
for TRC
Houston, Texas

168

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

(169)

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

174

[illegible]

(17)

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: TEL-3

Event: 1H20

Area of Concern: TEL

Completion Casing Diam. Casing Material

At-Grade 2-in ☒ PVCUpright ☒ 4-in ☐ SS ☒Vault ☐ Other ☐ Other ☐

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: GAB

(173)

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1400	14.10	14.16	0.06	27.19	22.2	yes	yes	yes	yes		Weather: C / real 80s

Well Purging Record

Date	Time	Depth to Water (Ft-TOC)	Cum. Vol. Purged (L)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Water Color / Clarity	Comments
6/16/20	1605		0.5								Low-flow groundwater sample: A) peristaltic pump w/ ded tubing B) ded bladder pump C) non-ded bladder pump; or Standard groundwater sample: D) bailer due to limited column; or E) recovery well cycling sample F) irrigation well grab sample
			1.0								
			1.5								
			2.0								
			2.5								
			3.0								
			3.5								Not sampled due to LNAPL 20.03' (Needs sock in well)
			4.0								

Well Sampling Record

Date	Time	Sample I.D.	Depth to Water (Ft-TOC)	pH (std units)	T (C)	SC (umho/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction-Potential (mV)	Turbidity (NTU)	Parameter	Preserv	Comments
6/16/20		TEL-3								Per COC	Per COC	Lab: Pace National, Mt. Juliet, TN
												Not sampled
												No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico **Ar**

Well: NW-98

Event: iH2O

Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☒	2-in ☐	PVC ☒
Upright ☐	4-in ☒	SS ☐
Vault	Other	Other

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initialed: TA

(177)

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/10	1330	N9	12.88 (12.88)	0.80	25.60	21.5	yes	yes	yes	yes		Weather: C / Rel 90°S

Well Purging Record

Well Sampling Record

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
 Artesia, New Mexico **Ar**

Well: RW-10
Event: 1420
Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☐	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other 8-in ☐	Other ☐

**Hydrologic Monitoring
for TRC
Houston, Texas**

Well Inspection Information The former RW-10 is permanently vaulted by heavy steel box. Current RW-10 is the stand-pipe ~ 50' south of former RW-10 per Navajo. Initials: TAB

178

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
5/16/10	900	NR	15.18	0.00	22.49 (22.49)	13.5	YES	YES	YES	YES		Weather: Partly cloudy to S

Well Purging Record

Well Sampling Record

(179)

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

180

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

Hydrologic Monitoring
for TRC
Houston, Texas

182

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+ DUP-RO-01

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: TGB to SLD

(183)

↳ lowered tubing intake as needed

↳ lowered tubing intake as needed

↳ lowered tubing intake as needed

↳ lowered tubing intake as needed

↳ lowered tubing intake as needed

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

184

Well Purging Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Gauge Only

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-30

Event: 1470

Area of Concern: REST

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade	2-in	PVC	✓
----------	------	-----	---

Upright ☒ 4 in SS

Vault Other 6-10 Other

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: *AK*

185

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
5/16/20	1600	NP	15.90	0.60	23.50	NS	YES	YES	YES	YES		Weather: clear 90S

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico **Ar**

Well: MW-56
Event: 1H2O
Concern: NCL

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☒	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: TAB to SLD

186

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Located under yellow barricade

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-49

Event: 11420

Area of Concern: TEL

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade ✓ 2-in ✓ PVC ✓

Upright 4-in SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: R Sim

187

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

May get covered with gravel

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: MW-106

Artesia Refinery

Event: 1420

Arlesia, New Mexico

Area of Concern: REST

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade	✓	2-in	PVC	✓
----------	---	------	-----	---

Upright 4-in ✓ SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information * Located in-line with the final letter "A" from "Ammonia" sign on gray tank with Initials: RJM

Initials: 125m

188

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/6/20	1600	NP	10.32	0.00	22.80	17.5	yes	yes	yes	yes		Weather: Sunny 90's

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

SW corner of Loudon Bldg.
Installed Z.H.G.

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Well: MW-139

Event: 1420

Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☒ 2-in ☒	PVC ☒	
Upright ☐ 4-in ☐	SS ☐	
Vault ☐ Other ☐	Other ☐	

**Hydrologic Monitoring
for TRC
Houston, Texas**

Well Inspection Information

Initials: **LJH**

190

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: MW-50

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

Hydrologic Monitoring

Artesia Refinery

Event: iH2c

At-Grade 2-in ✓ PVC ✓

for TRC

Arlesia, New Mexico

Area of Concern: REST

Upright ☒ 4-in SS

Houston, Texas

Vault	Other	Other
-------	-------	-------

Well Inspection Information * Located in Artesian well laydown yard, N. of main warehouse.

Initials: C. J. H.

(191)

[illegible]

Well Purging Record

* SC Confirmed

[illegible]

Well Sampling Record

**Hydrologic Monitoring
for TRC
Houston, Texas**

193

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

(193)

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Bagged tube

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: RW-1

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

Hydrologic Monitoring

Artesia Refinery

Event: 1420

At-Grade 2-in PVC ✓

for TRC

Artesia, New Mexico

Area of Concern: RFS

Upright ☒ 4-in ☒ SS

Houston, Texas

Well Inspection Information In "doghouse"; gauge/sample through 1-in guide-pipe

Initials: C J H

(194)

[illegible]

Well Purging Record

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Hydrologic Monitoring
for TRC
Houston, Texas

195

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico **Ar**

Well: MW-90
Event: iH2O
Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☐	PVC ☒
Upright ☒	4-in ☒	SS ☐
Vault ☐	Other ☐	Other ☐

Hydrologic Monitoring
for TRC
Houston, Texas

Well Inspection Information

Initials: CSH

196

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-910

Event: IH20

Area of Concern: REST

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade	2-in	PVC	✓
----------	------	-----	---

Upright ☒ 4-in ☒ SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: C JH

197

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6.16.20	1505	NP	12.85	0.00	25.57	21.2	Yes	Issue	NO	Yes		Weather: Clear, 90's
								*	LOCK			

Well Purging Record

* Well was struck prior to 2H17 event.
Hinge is broken and well not secure.

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

Bagged tube

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-94

Event: iH2O

Area of Concern: REST

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade 2-in PVC ✓

Upright ☒ 4-in ☒ SS

Vault	Other	Other
-------	-------	-------

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: CJH

198

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6.16.20	1550	14.63	18.50	3.87	23.45	16.0	Yes	Yes	Yes	Yes		Weather: Clear, 90's
				*								

Well Purging Record

* Thickness Confirmed

Well Sampling Record

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Bagged tube

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Well: RW-8

Artesia Refinery

Event: 1420

Artesia, New Mexico

Area of Concern: REST

Completion	Casing Diam.	Casing Material
------------	--------------	-----------------

At-Grade	2-in	PVC	✓
----------	------	-----	---

Upright ☒ 4-in ☒ SS

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information In "doghouse"; gauge/sample through 1-in. guide-pipe.

Initials: CSH

149

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Gate	Other	
6.16.20	1600	13.62	15.72	2.10	37.22	35.2	Yes	Yes	Yes	Yes		Weather: Clear, 90's

Well Purging Record

Well Sampling Record

[illegible]

**Hydrologic Monitoring
for TRC
Houston, Texas**

200

[illegible]

(201)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: C J H

(202)

[illegible]

203

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Hydrologic Monitoring
for TRC
Houston, Texas

204

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

205

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

+ EB-NCL-01 (same analysis)

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: C JH

(206)

Well Purging Record

Well Sampling Record

* Access on foot

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-108

Event: iH2O

Area of Concern: NCL

Completion	Casing Diam.	Casing Material
10-1/8"	10-1/8"	Steel
9-7/8"	9-7/8"	Steel
9-5/8"	9-5/8"	Steel
9-1/2"	9-1/2"	Steel
9-1/4"	9-1/4"	Steel
9-3/8"	9-3/8"	Steel
9-1/8"	9-1/8"	Steel
9-1/16"	9-1/16"	Steel
9-1/32"	9-1/32"	Steel
9-1/64"	9-1/64"	Steel
9-1/128"	9-1/128"	Steel
9-1/256"	9-1/256"	Steel
9-1/512"	9-1/512"	Steel
9-1/1024"	9-1/1024"	Steel
9-1/2048"	9-1/2048"	Steel
9-1/4096"	9-1/4096"	Steel
9-1/8192"	9-1/8192"	Steel
9-1/16384"	9-1/16384"	Steel
9-1/32768"	9-1/32768"	Steel
9-1/65536"	9-1/65536"	Steel
9-1/131072"	9-1/131072"	Steel
9-1/262144"	9-1/262144"	Steel
9-1/524288"	9-1/524288"	Steel
9-1/1048576"	9-1/1048576"	Steel
9-1/2097152"	9-1/2097152"	Steel
9-1/4194304"	9-1/4194304"	Steel
9-1/8388608"	9-1/8388608"	Steel
9-1/16777216"	9-1/16777216"	Steel
9-1/33554432"	9-1/33554432"	Steel
9-1/67108864"	9-1/67108864"	Steel
9-1/134217728"	9-1/134217728"	Steel
9-1/268435456"	9-1/268435456"	Steel
9-1/536870912"	9-1/536870912"	Steel
9-1/1073741824"	9-1/1073741824"	Steel
9-1/2147483648"	9-1/2147483648"	Steel
9-1/4294967296"	9-1/4294967296"	Steel
9-1/8589934592"	9-1/8589934592"	Steel
9-1/17179869184"	9-1/17179869184"	Steel
9-1/34359738368"	9-1/34359738368"	Steel
9-1/68719476736"	9-1/68719476736"	Steel
9-1/137438953472"	9-1/137438953472"	Steel
9-1/274877906944"	9-1/274877906944"	Steel
9-1/549755813888"	9-1/549755813888"	Steel
9-1/1099511627776"	9-1/1099511627776"	Steel
9-1/2199023255552"	9-1/2199023255552"	Steel
9-1/4398046511104"	9-1/4398046511104"	Steel
9-1/8796093022208"	9-1/8796093022208"	Steel
9-1/17592186044416"	9-1/17592186044416"	Steel
9-1/35184372088832"	9-1/35184372088832"	Steel
9-1/70368744177664"	9-1/70368744177664"	Steel
9-1/140737488355328"	9-1/140737488355328"	Steel
9-1/281474976710656"	9-1/281474976710656"	Steel
9-1/562949953421312"	9-1/562949953421312"	Steel
9-1/1125899906842624"	9-1/1125899906842624"	Steel
9-1/2251799813685248"	9-1/2251799813685248"	Steel
9-1/4503599627370496"	9-1/4503599627370496"	Steel
9-1/9007199254740992"	9-1/9007199254740992"	Steel
9-1/18014398509481984"	9-1/18014398509481984"	Steel
9-1/36028797018963968"	9-1/36028797018963968"	Steel
9-1/72057594037927936"	9-1/72057594037927936"	Steel
9-1/144115188075855872"	9-1/144115188075855872"	Steel
9-1/288230376151711744"	9-1/288230376151711744"	Steel
9-1/576460752303423488"	9-1/576460752303423488"	Steel
9-1/1152921504606846976"	9-1/1152921504606846976"	Steel
9-1/2305843009213693952"	9-1/2305843009213693952"	Steel
9-1/4611686018427387904"	9-1/4611686018427387904"	Steel
9-1/9223372036854775808"	9-1/9223372036854775808"	Steel
9-1/18446744073709551616"	9-1/18446744073709551616"	Steel
9-1/36893488147419103232"	9-1/36893488147419103232"	Steel
9-1/73786976294838206464"	9-1/73786976294838206464"	Steel
9-1/147573952589676412928"	9-1/147573952589676412928"	Steel
9-1/295147905179352825856"	9-1/295147905179352825856"	Steel
9-1/590295810358705651712"	9-1/590295810358705651712"	Steel
9-1/1180591620717411303424"	9-1/1180591620717411303424"	Steel
9-1/2361183241434822606848"	9-1/2361183241434822606848"	Steel
9-1/4722366482869645213696"	9-1/4722366482869645213696"	Steel
9-1/9444732965739290427392"	9-1/9444732965739290427392"	Steel
9-1/18889465931478580854784"		

At-Grade	2-in	PVC	✓
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Upright ☒ 4-in ☒ SS

Vault	Other	Other
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Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

Initials: C J H

207

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6.16.20	1730	NP	15.30	0.00	27.74	22.5	Yes	Yes	Yes	Yes		Weather: Clear, 80's
6.17.20	900	NP	15.40	0.00								

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

Gauge Only

Monitoring Well Purging and Sampling Record (Not in "sampling" Program)

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-19

Event: 1420

Area of Concern: NCL

Completion	Casing Diam.	Casing Material
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At-Grade	2-in	PVC	✓
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Upright ☒ 4-in SS

Vault Other 6-in Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: CJH

209

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6.16.20	1740	NP	12.45	0.00	22.08	NS	Yes	Yes	Issue	Yes		Weather: Clear, 90's
									x			

Well Purging Record

* Not Secure; needs protective casing

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

210

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

Monitoring Well Purging and Sampling Record

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico *Ar*

Well: RW-#17A

Event: j H2O

Area of Concern: REST

Completion	Casing Diam.	Casing Material
At-Grade ☐	2-in ☐	PVC ☒
Upright ☒	4-in ☐	SS ☐
Vault	Other ☒	Other ☐

Bell-shaped PVC stickup
w/ PVC slip cap

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: **MS**

211

Well Inspection Information

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Intake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6/16/20	1755	NP	14.54	0.00	16.01	* 14.0	Yes	Yes	Yes	Yes		Weather: Partly Cloudy, 100's
6/17/20	1445	NP	14.56	0.00		(* lowered intake to base of well)						

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

212

[illegible]

Hydrologic Monitoring
for TRC
Houston, Texas

Initials: **CSH**

213

[illegible]

Gauge Only

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-54B

Event: 1420

Area of Concern: NCL

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
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At-Grade	2-in	✓	PVC	✓
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Upright ☒ 4-in ☐ 5-in ☐ 6-in ☐ 7-in ☐ 8-in ☐ 9-in ☐ 10-in ☐ 11-in ☐ 12-in ☐ 13-in ☐ 14-in ☐ 15-in ☐ 16-in ☐ 17-in ☐ 18-in ☐ 19-in ☐ 20-in ☐ 21-in ☐ 22-in ☐ 23-in ☐ 24-in ☐ 25-in ☐ 26-in ☐ 27-in ☐ 28-in ☐ 29-in ☐ 30-in ☐ 31-in ☐ 32-in ☐ 33-in ☐ 34-in ☐ 35-in ☐ 36-in ☐ 37-in ☐ 38-in ☐ 39-in ☐ 40-in ☐ 41-in ☐ 42-in ☐ 43-in ☐ 44-in ☐ 45-in ☐ 46-in ☐ 47-in ☐ 48-in ☐ 49-in ☐ 50-in ☐ 51-in ☐ 52-in ☐ 53-in ☐ 54-in ☐ 55-in ☐ 56-in ☐ 57-in ☐ 58-in ☐ 59-in ☐ 60-in ☐ 61-in ☐ 62-in ☐ 63-in ☐ 64-in ☐ 65-in ☐ 66-in ☐ 67-in ☐ 68-in ☐ 69-in ☐ 70-in ☐ 71-in ☐ 72-in ☐ 73-in ☐ 74-in ☐ 75-in ☐ 76-in ☐ 77-in ☐ 78-in ☐ 79-in ☐ 80-in ☐ 81-in ☐ 82-in ☐ 83-in ☐ 84-in ☐ 85-in ☐ 86-in ☐ 87-in ☐ 88-in ☐ 89-in ☐ 90-in ☐ 91-in ☐ 92-in ☐ 93-in ☐ 94-in ☐ 95-in ☐ 96-in ☐ 97-in ☐ 98-in ☐ 99-in ☐ 100-in ☐ 101-in ☐ 102-in ☐ 103-in ☐ 104-in ☐ 105-in ☐ 106-in ☐ 107-in ☐ 108-in ☐ 109-in ☐ 110-in ☐ 111-in ☐ 112-in ☐ 113-in ☐ 114-in ☐ 115-in ☐ 116-in ☐ 117-in ☐ 118-in ☐ 119-in ☐ 120-in ☐ 121-in ☐ 122-in ☐ 123-in ☐ 124-in ☐ 125-in ☐ 126-in ☐ 127-in ☐ 128-in ☐ 129-in ☐ 130-in ☐ 131-in ☐ 132-in ☐ 133-in ☐ 134-in ☐ 135-in ☐ 136-in ☐ 137-in ☐ 138-in ☐ 139-in ☐ 140-in ☐ 141-in ☐ 142-in ☐ 143-in ☐ 144-in ☐ 145-in ☐ 146-in ☐ 147-in ☐ 148-in ☐ 149-in ☐ 150-in ☐ 151-in ☐ 152-in ☐ 153-in ☐ 154-in ☐ 155-in ☐ 156-in ☐ 157-in ☐ 158-in ☐ 159-in ☐ 160-in ☐ 161-in ☐ 162-in ☐ 163-in ☐ 164-in ☐ 165-in ☐ 166-in ☐ 167-in ☐ 168-in ☐ 169-in ☐ 170-in ☐ 171-in ☐ 172-in ☐ 173-in ☐ 174-in ☐ 175-in ☐ 176-in ☐ 177-in ☐ 178-in ☐ 179-in ☐ 180-in ☐ 181-in ☐ 182-in ☐ 183-in ☐ 184-in ☐ 185-in ☐ 186-in ☐ 187-in ☐ 188-in ☐ 189-in ☐ 190-in ☐ 191-in ☐ 192-in ☐ 193-in ☐ 194-in ☐ 195-in ☐ 196-in ☐ 197-in ☐ 198-in ☐ 199-in ☐ 200-in ☐ 201-in ☐ 202-in ☐ 203-in ☐ 204-in ☐ 205-in ☐ 206-in ☐ 207-in ☐ 208-in ☐ 209-in ☐ 210-in ☐ 211-in ☐ 212-in ☐ 213-in ☐ 214-in ☐ 215-in ☐ 216-in ☐ 217-in ☐ 218-in ☐ 219-in ☐ 220-in ☐ 221-in ☐ 222-in ☐ 223-in ☐ 224-in ☐ 225-in ☐ 226-in ☐ 227-in ☐ 228-in ☐ 229-in ☐ 230-in ☐ 231-in ☐ 232-in ☐ 233-in ☐ 234-in ☐ 235-in ☐ 236-in ☐ 237-in ☐ 238-in ☐ 239-in ☐ 240-in ☐ 241-in ☐ 242-in ☐ 243-in ☐ 244-in ☐ 245-in ☐ 246-in ☐ 247-in ☐ 248-in ☐ 249-in ☐ 250-in ☐ 251-in ☐ 252-in ☐ 253-in ☐ 254-in ☐ 255-in ☐ 256-in ☐ 257-in ☐ 258-in ☐ 259-in ☐ 260-in ☐ 261-in ☐ 262-in ☐ 263-in ☐ 264-in ☐ 265-in ☐ 266-in ☐ 267-in ☐ 268-in ☐ 269-in ☐ 270-in ☐ 271-in ☐ 272-in ☐ 273-in ☐ 274-in ☐ 275-in ☐ 276-in ☐ 277-in ☐ 278-in ☐ 279-in ☐ 280-in ☐ 281-in ☐ 282-in ☐ 283-in ☐ 284-in ☐ 285-in ☐ 286-in ☐ 287-in ☐ 288-in ☐ 289-in ☐ 290-in ☐ 291-in ☐ 292-in ☐ 293-in ☐ 294-in ☐ 295-in ☐ 296-in ☐ 297-in ☐ 298-in ☐ 299-in ☐ 300-in ☐ 301-in ☐ 302-in ☐ 303-in ☐ 304-in ☐ 305-in ☐ 306-in ☐ 307-in ☐ 308-in ☐ 309-in ☐ 310-in ☐ 311-in ☐ 312-in ☐ 313-in ☐ 314-in ☐ 315-in ☐ 316-in ☐ 317-in ☐ 318-in ☐ 319-in ☐ 320-in ☐ 321-in ☐ 322-in ☐ 323-in ☐ 324-in ☐ 325-in ☐ 326-in ☐ 327-in ☐ 328-in ☐ 329-in ☐ 330-in ☐ 331-in ☐ 332-in ☐ 333-in ☐ 334-in ☐ 335-in ☐ 336-in ☐ 337-in ☐ 338-in ☐ 339-in ☐ 340-in ☐ 341-in ☐ 342-in ☐ 343-in ☐ 344-in ☐ 345-in ☐ 346-in ☐ 347-in ☐ 348-in ☐ 349-in ☐ 350-in ☐ 351-in ☐ 352-in ☐ 353-in ☐ 354-in ☐ 355-in ☐ 356-in ☐ 357-in ☐ 358-in ☐ 359-in ☐ 360-in ☐ 361-in ☐ 362-in ☐ 363-in ☐ 364-in ☐ 365-in ☐ 366-in ☐ 367-in ☐ 368-in ☐ 369-in ☐ 370-in ☐ 371-in ☐ 372-in ☐ 373-in ☐ 374-in ☐ 375-in ☐ 376-in ☐ 377-in ☐ 378-in ☐ 379-in ☐ 380-in ☐ 381-in ☐ 382-in ☐ 383-in ☐ 384-in

Vault Other Other

Hydrologic Monitoring

for TRC

Houston, Texas

Initials: C J H

214

Well Inspection Information

[illegible]

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL, and collect groundwater sample

**Hydrologic Monitoring
for TRC
Houston, Texas**

Initials: C J H

(215)

Well Purging Record

Well Sampling Record

[illegible]

mw-53R reinstalled - March 2020, per TRC

Not resolved yet, HZO

Monitoring Well Purging and Sampling Record

Navajo Refining Company

Artesia Refinery

Artesia, New Mexico

Well: MW-53R

Event: 1 H2O

Area of Concern: NCL

<u>Completion</u>	<u>Casing Diam.</u>	<u>Casing Material</u>
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At-Grade ✓ 2-in ✓ PVC ✓

Upright 4-in SS

Vault	Other	Other
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Hydrologic Monitoring

for TRC

Houston, Texas

Well Inspection Information

~15' S. of 70 mile marker ^{Vault} ^{Other} ^{Other} (285 north-bound)

Initials: CTH

216

Date	Time	Depth to LNAPL (Ft-TOC)	Depth to Water (Ft-TOC)	LNAPL Thickness (Ft)	Well Total Depth (Ft-TOC)	Sample Inlake (Ft-TOC)	Well Inspection					Comments
							Cap	Casing	Well Secured	Label	Other	
6.16.20	1110	NM	NM	NM	23.60	19.6	NA	NA	NA	NA		Weather: Clear, 80's

Well Purging Record

[illegible]

Well Sampling Record

[illegible]

No groundwater sample collected if LNAPL thickness is greater than, or equal to 0.03'; if LNAPL thickness is measured at 0.01' or 0.02', remove LNAPL and collect groundwater sample

Instrument Calibration Log

Navajo Refining Company
Artesia Refinery
Artesia, New Mexico

Hydrologic Monitoring
for TRC
Houston, Texas

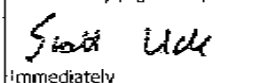
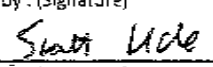
Date	Time	pH Hanna (Std. units)	Specific Conductivity Hanna (umho/cm)	Dissolved Oxygen Hanna (Slope Cal. in saturated air)	Turbidity Lamotte (NTU)	ORP Hanna HI 7020 Soln (200-275 mV)	PID Thermo Environmental 100 ppm Isobutylene	Initials / Comments
6/15/20	1545	4.01/7.00	1,000	100%	10.0	241.4	NA	SLU
6/16/20	640	4.01/7.00	1,000	100%	10.0	243.0	NA	SLU
6/16/20	645	4.01/7.00	1,000	100%	10.0	249.8	NA	RB
6/16/20	649	4.01/7.00	1,000	100%	10.0	237.1	NA	CJS
6-16-20	652	4.01/7.00	1,000	100%	10.0	241.2	NA	MOB
6-16-20	655	4.01/7.00	1,000	100%	10.0	239.6	NA	SCD
6-16-20	659	4.01/7.00	1,000	100%	10.0	224.9	NA	BRH
6-16-20	701	4.01/7.00	1,000	100%	10.0	226.1	NA	CJH
6-16-20	705	4.01/7.00	1,000	100%	10.0	248.9	NA	TAB
6-16-20	708	4.01/7.00	1,000	100%	10.0	221.7	NA	OSD
6-16-20	711	4.01/7.00	1,000	100%	10.0	212.9	NA	RSM
6/17/20	645	4.01/7.00	1,000	100%	10.0	241.7	NA	SLU
6/17/20	652	4.01/7.00	1,000	100%	10.0	231.9	NA	MOB
6-17-20	655	4.01/7.00	1,000	100%	10.0	226.1	NA	CJH
6-17-20	658	4.01/7.00	1,000	100%	10.0	222.7	NA	BRH
6-17-20	700	4.01/7.00	1,000	100%	10.0	232.8	NA	MOB
6-17-20	706	4.01/7.00	1,000	100%	10.0	221.7	NA	OSD
6/17/20	708	4.01/7.00	1,000	100%	10.0	229.8	NA	RB
6-17-20	711	4.01/7.00	1,000	100%	10.0	236.7	NA	SCD
6-17-20	714	4.01/7.00	1,000	100%	10.0	250.1	NA	TAB
6-17-20	717	4.01/7.00	1,000	100%	10.0	212.3	NA	RSM

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DAY 1

Received by OCD: 11/22/2022 9:24:38 AM

Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 6	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: EP Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170 Fax:		Client Project # 330538.0000.0000		Lab Project # TRCATX-EP																	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # EP (Navajo - Artesia)		P.O. # 150726																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad On y) ☐ Three Day		Quote #		Date Results Needed		No. of Cntrs													
Immediately Packed on Ice N ☐ Y ☒																					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (Lab only)		
MW-6A		Grab	GW		6/16/20	1055	10	X	X	X	X	X	X	X	X	X	X				
MW-85		Grab	GW				10	X	X	X	X	X	X	X	X	X	X				
MW-86		Grab	GW				11	X	X	X	X	X	X	X	X	X	X				
MW-120		Grab	GW		6/16/20	1145	10	X	X	X	X	X	X	X	X	X	X				
MW-121		Grab	GW		6/16/20	1230	10	X	X	X	X	X	X	X	X	X	X				
MW-84		Grab	GW				10	X	X	X	X	X	X	X	X	X	X				
MW-122		Grab	GW				10	X	X	X	X	X	X	X	X	X	X				
MW-81		Grab	GW				10	X	X	X	X	X	X	X	X	X	X				
MW-80		Grab	GW				10	X	X	X	X	X	X	X	X	X	X				
MW-79		Grab	GW				10	X	X	X	X	X	X	X	X	X	X				
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____ Samples returned via: ☐ UPS ☒ FedEx ☐ Courier Tracking # _____																			
Relinquished by: (Signature) 		Date: 6/17/20		Time: 0800		Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeOH TBR				Temp: °C Bottles Received:				If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)				Date: Time:				Hold:				Condition: NCE / OK			
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)				Date: Time:				Hold:				Condition: NCE / OK			

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
If Applicable			
VDA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N

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Received by OCD: 11/22/2022 9:24:38 AM
Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to:
Julie Speer

Email To:
jspeer@trccompanies.com

Project Description: EP Spring 2020

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client: Project #
330538.0000.0000

Lab Project #
TRCATX-EP

Collected by (print):
Scott Ude/HMI Team

Site/Facility ID #
EP (Navajo - Artesia)

P.O. #
150726

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N ☐ Y ☒

Same Day ☐ Five Day ☐
Next Day ☐ 5 Day (Rad Only) ☐
Two Day ☐ 10 Day (Rad Only) ☐
Three Day ☐

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
MW-82	Grab	GW				10	X	X	X	X	X	X				
MW-74	Grab	GW		6/16/20	1315	10	X	X	X	X	X	X				
MW-73	Grab	GW		6/16/20	1420	10	X	X	X	X	X	X				
MW-2A	Grab	GW				10	X	X	X	X	X	X				
MW-72	Grab	GW		6/16/20	1650	10	X	X	X	X	X	X				
OCD-6	Grab	GW		6/16/20	1605	10	X	X	X	X	X	X				
OCD-7AR	Grab	GW		6/16/20	1510	10	X	X	X	X	X	X				
MW-76	Grab	GW				10	X	X	X	X	X	X				
MW-77	Grab	GW				10	X	X	X	X	X	X				
MW-78	Grab	GW				10	X	X	X	X	X	X				

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Dissolved metals field-filtered.

Samples returned via:

UPS ☒ FEDEX ☐ Courier ☐

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Log: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Pres
Chk

Chain of Custody Page 2 of 6



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5838
Phone: 800-767-5859
Fax: 615-758-5859



L#

Table #

Account: TRCATX

Template: T133265

Prelogin: P763440

TSR: 526

PB:

Shipped Via:

Remarks

Sample # (lab only)

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N

COC Signed/Accurate: ☐ Y ☐ N

Bottles arrive intact: ☐ Y ☐ N

Correct bottles used: ☐ Y ☐ N

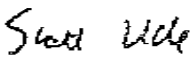
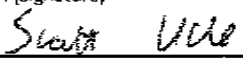
Sufficient volume sent: ☐ Y ☐ N

If Applicable

VQA Zero Headspace: ☐ Y ☐ N

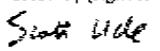
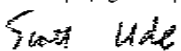
Preservation Correct/Checked: ☐ Y ☐ N

Page 260 of 305
Received by OGD: 11/22/2022 9:24:38 AM
Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 4 of 6	
Report to: Julie Speer		Email To: jspeer@trccompanies.com														 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: EP Spring 2020		City/State Collected: Artesia, NM															
Phone: 512-684-3170 Fax:		Client Project # 330538.0000.0000		Lab Project # TRCATX-EP												L#	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # EP (Navajo - Artesia)		P.O. # 150726												Table #	
Collected by (signature): 		Rush? (Lab MUST Be Notified) Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ Two Day _____ 10 Day (Rad Only) _____ Three Day _____		Quote #												Acctnum: TRCATX Template: T133265 Prelogin: P763440 TSR: 526 PB:	
Immediately Packed on Ice N _____ Y ☒		Date Results Needed		No. of Cntrs												Shipped Via:	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (Lab only)
OCD-8A	Grab	GW		6/16/20	1250	11	X	X	X	X	X	X	X				
MW-1R	Grab	GW				8	X	X	X	X	X	X					
MW-1S	Grab	GW				10	X	X	X	X	X	X					
OCD-1R	Grab	GW				10	X	X	X	X	X	X					
OCD-2A	Grab	GW				10	X	X	X	X	X	X					
OCD-3	Grab	GW				10	X	X	X	X	X	X					
OCD-4	Grab	GW				10	X	X	X	X	X	X					
MW-11A	Grab	GW				10	X	X	X	X	X	X					
OCD-5	Grab	GW				10	X	X	X	X	X	X					
MW-87	Grab	GW		6/16/20	1545	8	X	X	X	X	X	X					
Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other _____		Remarks: Dissolved metals field-filtered.		pH _____ Temp _____ Flow _____ Other _____												Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☒ N COC Signed/Accurate: ☒ Y ☒ N Bottles arrive intact: ☒ Y ☒ N Correct bottles used: ☒ Y ☒ N Sufficient volume sent: ☒ Y ☒ N If Applicable VOA Zero Headspace: ☒ Y ☒ N Preservation Correct/Checked: ☒ Y ☒ N	
Samples returned via: UPS ☒ FedEx _____ Courier _____		Tracking #															
Relinquished by: (Signature) 		Date: 6/17/20		Time: 0800		Received by: (Signature)		Trip Blank Received: Yes/No HCL / MeOH TBR		Temp: _____ °C		Bottles Received:		If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: _____ °C		Bottles Received:		If preservation required by Login: Date/Time					
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date:		Time:		Hold:		Condition: NCF / OK			

NCF / O

Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 2 of 13	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-757-5859 Fax: 615-758-5859	
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																L # _____ Table # _____ Acctnum: TRCATX Template: T133463 Prelogin: P763304 TSR: 526 PB: _____	
Phone: 512-684-3170 Fax: _____		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST														Shipped Via: _____			
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726														Remarks _____ Sample # (lab only) _____			
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote # _____		Date Results Needed _____		No. of Cntrs													
Immediately Packed on Ice N ☐ Y ☒																					
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time			VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)				
RW-#15C	Grab	GW				8		X	X		X	X	X								
MW-48	Grab	GW				10		X	X	X	X	X	X								
MW-130	Grab	GW				10		X	X	X	X	X	X								
KWB-4	Grab	GW				8		X	X		X	X	X								
RW-19	Grab	GW				8		X	X		X	X	X								
MW-52	Grab	GW				11		X	X	X		X	X	X	X						
MW-109	Grab	GW				10		X	X	X	X	X	X								
MW-110	Grab	GW				10		X	X	X	X	X	X								
RW-12R	Grab	GW				8		X	X		X	X	X								
RW-113	Grab	GW				10		X	X	X	X	X	X								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks: Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____ Samples returned via: ☐ UPS ☐ FedEx ☒ Courier _____ Tracking # _____																			
Relinquished by: (Signature) 		Date: 6/17/20		Time: 0800		Received by: (Signature) _____		Trip Blank Received: Yes / No HCL / MeOH TBR		Sample Receipt Checklist CDC Seal Present/Intact: ☐ NP ☐ Y ☐ N CDC Signed/Accurate: ☐ Y ☐ N Bottles arrive intact: ☐ Y ☐ N Correct bottles used: ☐ Y ☐ N Sufficient volume sent: ☐ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☐ N Preservation Correct/Checked: ☐ Y ☐ N											
Relinquished by: (Signature) _____		Date: _____		Time: _____		Received by: (Signature) _____		Temp: _____ °C Bottles Received: _____		If preservation required by Login: Date/Time _____											
Relinquished by: (Signature) _____		Date: _____		Time: _____		Received for lab by: (Signature) _____		Date: _____ Time: _____		Hold: _____		Condition: NCF / OK									

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to:
Julie Speer

Email To:
jspeer@trccompanies.com

Project -
Description: REST Spring 2020

City/State
Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #
330538.0000.0000

Lab Project #
TRCATX-REST

Collected by (print):
Scott Ude/HMI Team

Site/Facility ID #
REST (Navajo - Artesia)

P.O. #
150726

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on ice N Y ☒

Some Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
KWB-8	Grab	GW				9	X	X		X	X	X	X	X		
RW-22	Grab	GW				8	X	X		X	X	X				
RW-20A	Grab	GW				8	X	X		X	X	X				
RW-20B	Grab	GW				8	X	X		X	X	X				
RW-13R	Grab	GW				8	X	X		X	X	X				
RW-14R	Grab	GW				8	X	X		X	X	X				
MW-133	Grab	GW				10	X	X	X	X	X	X				
MW-134	Grab	GW				10	X	X	X	X	X	X				
RA-4798	Grab	GW				5	X			X	X					
RA-4196	Grab	GW				5	X			X	X					

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:
Dissolved metals field-filtered.

Samples returned via:
UPS ☒ FedEx ☐ Courier ☐

Tracking #

Relinquished by: (Signature) Scott Ude	Date: 6/17/20	Time: 0800
Relinquished by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:

Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	Temp: °C	Bottles Received:	If preservation required by Login: Date/Time
Received by: (Signature)				
Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 2 of 13



32065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-757-5858
Fax: 615-758-5859

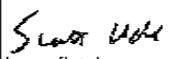
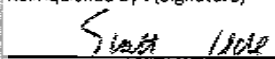


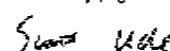
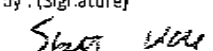
L #
Table #
Acctnum: TRCATX
Template: T133463
Prelogin: P763304
TSR: 526
PB:
Shipped Via:

Remarks Sample # (Lab only)

Sample Receipt Checklist
COC Seal Present/Intact NP Y N
COC Signed/Accurate Y N
Bottles arrive intact Y N
Correct bottles used Y N
Sufficient volume sent Y N
If Applicable
VOA Zero Headspace Y N
Preservation Correct/Checked Y N

Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 4 of 13	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 	
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #																	
Immediately				Date Results Needed																	
Packed on Ice N ___ Y ☒																					
Sample ID	Comp/Crab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (Lab only)			
MW-119	Grab	GW		6/16/20	945	10	X	X	X	X	X	X									
MW-136	Grab	GW				11	X	X	X		X	X	X	X							
MW-126A	Grab	GW		6/16/20	1505	10	X	X	X	X	X	X									
MW-126B	Grab	GW		6/16/20	1425	10	X	X	X	X	X	X									
MW-127	Grab	GW				10	X	X	X	X	X	X									
MW-129	Grab	GW				10	X	X	X	X	X	X									
RW-#18A	Grab	GW		6/16/20	950 su	6	X			X	X	X									
KWB-1A	Grab	GW				9	X	X			X	X	X	X							
KWB-10R	Grab	GW				8	X	X		X	X	X									
MW-131	Grab	GW		6/16/20	1320	10	X	X	X	X	X	X									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other				Remarks: RW-#18A replacement sample (6/19/20, 10:30) su Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____										Sample Receipt Checklist COC Seal Present/Intact: NP Y ___ N ___ COC Signed/Accurate: Y ___ N ___ Bottles arrive intact: Y ___ N ___ Correct bottles used: Y ___ N ___ Sufficient volume sent: Y ___ N ___ If Applicable: VOA Zero Headspace: Y ___ N ___ Preservation Correct/Checked: Y ___ N ___							
Samples returned via: ___ UPS ☒ FedEx ___ Courier _____				Tracking #																	
Relinquished by: (Signature) 		Date: 6/17/20		Time: 0800		Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeOH TBR				Temp: _____ °C Bottles Received:				If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)				Temp: _____ °C Bottles Received:				If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)				Date:				Time:		Hold:		Condition: NCF / OK			

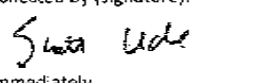
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk	Analysis / Container / Preservative										Chain of Custody Page <u>5</u> of <u>3</u>	
Report to: Julie Speer				Email To: jspeer@trccompanies.com														 12055 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-258-5858 Phone: 800-767-5859 Fax: 615-758-5859 		
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																
Fax:																				
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																
Collected by (signature): 		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #																
Immediately Packed on Ice N ___ Y ☒				Date Results Needed																
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Shipped Via:		
KWB-5		Grab	GW				8	X	X		X	X	X						Return to	Sample # (lab only)
MW-111		Grab	GW				10	X	X	X	X	X	X							
KWB-6		Grab	GW				11	X	X		X	X	X				X			
MW-112		Grab	GW				10	X	X	X	X	X	X							
MW-132		Grab	GW				10	X	X	X	X	X	X							
MW-57		Grab	GW		6/16/20	1525	10	X	X	X	X	X	X							
RW-#11-0		Grab	GW				8	X	X		X	X	X							
KWB-12A		Grab	GW		6/16/20	1305	11	X	X	X		X	X	X	X					
KWB-12B		Grab	GW		6/16/20	1355	11	X	X	X		X	X	X	X					
KWB-2R		Grab	GW		6/16/20		8	X	X		X	X	X							
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____ Samples returned via: ___ UPS ☒ FedEx ___ Courier _____ Tracking # _____																		
Relinquished by: (Signature) 		Date: 6/17/20	Time: 0800	Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeOH TBR				Bottles Received:				If preservation required by Login: Date/Time				
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)				Temp: °C												
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)				Date:				Time:				Hold:				
																Condition: NCF / OK				

[illegible]

Page 269 of 305
Received by OGD: 11/22/2022 9:24:38 AM
Released to Imaging: 11/22/2022 9:31:39 AM

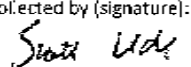
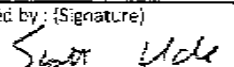
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 7 of 13	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																	
Project: Description: REST Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																	
Collected by (signature): <i>Scott Ude</i>		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #		Date Results Needed															
Immediately Packed on Ice N ____ Y ☒								No. of Cntrs													
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Shipped Via:			
																		Remarks			
MW-99		Grab	GW				10	X	X	X	X	X	X	X	X			Sample # (lab only)			
MW-66		Grab	GW				11	X	X	X	X	X	X	X	X						
MW-28		Grab	GW				11	X	X	X	X	X	X	X	X						
MW-59		Grab	GW				10	X	X	X	X	X	X	X	X						
MW-60		Grab	GW				11	X	X	X	X	X	X	X	X						
MW-107		Grab	GW				10	X	X	X	X	X	X	X	X						
MW-128		Grab	GW				10	X	X	X	X	X	X	X	X						
MW-125		Grab	GW		6/16/20	1055	10	X	X	X	X	X	X	X	X						
MW-116		Grab	GW		6/16/20	1115 _{sq}	10	X	X	X	X	X	X	X	X						
UG-3R		Grab	GW		6/15/20	1630	11	X	X	X	X	X	X	X	X						
Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: MW-116 replacement sample (6/19/20; 9:30) sq Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____ Samples returned via: ☐ UPS ☒ FedEx ☐ Courier Tracking # _____ Relinquished by: (Signature) <i>Scott Ude</i> Date: 6/17/20 Time: 0800 Received by: (Signature) Trip Blank Received: Yes / No HCL / MeOH TBR Temp: _____ °C Bottles Received: _____ If preservation required by Login: Date/Time Relinquished by: (Signature) Date: Time: Received for lab by: (Signature) Date: Time: Hold: Condition: NCF / OK																			

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Received by OGD: 11/22/2022 9:24:38 AM
Released to Imaging: 11/22/2022 9:31:39 AM

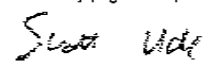
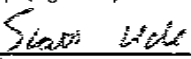
RC Solutions - Austin, TX 05 E. Huntland Dr, Ste 250 Austin, TX 78752			Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com			Pres Chk	Analysis / Container / Preservative										Chain of Custody Page 8 of 13		
Report to: Julie Speer			Email To: jspeer@trccompanies.com															 1206S Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-467-5859 Fax: 615-758-5859	
Project: Description: REST Spring 2020			City/State Collected: Artesia, NM																
Phone: 512-684-3170 Fax:		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST														L#	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726														Table #	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #														Acctnum: TRCATX Template: T133463 Prelogin: P763304 TSR: 526 PB:	
Immediately Packed on Ice N ____ Y ____				Date Results Needed		No. of Cntrs												Shipped Via:	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab on y)	
UG-4	Grab	GW		6/15/20	1720	11	X	X	X		X	X	X	X					
UG-1	Grab	GW		6/15/20	1810	11	X	X	X		X	X	X	X					
UG-2	Grab	GW		6/15/20	1910	11	X	X	X		X	X	X	X					
MW-101	Grab	GW		6/16/20	1505	10	X	X	X	X	X	X							
MW-105	Grab	GW				10	X	X	X	X	X	X							
RW-2	Grab	GW				12	X	X	X	X	X	X			X				
MW-61	Grab	GW				10	X	X	X	X	X	X							
MW-62	Grab	GW				10	X	X	X	X	X	X							
MW-93	Grab	GW				12	X	X	X	X	X	X			X				
MW-43	Grab	GW				11	X	X	X		X	X	X	X					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered.		pH: _____ Temp _____ Flow _____ Other _____		Samples returned via: ____ UPS ☒ FedEx _____ Courier _____		Tracking # _____		Trip Blank Received: Yes / No HCL / MeOH TAR		Bottles Received: _____		If preservation required by Login: Date/Time		Condition: NCF / OK			
Relinquished by: (Signature) 		Date: 6/17/20		Time: 0800		Received by: (Signature)		Received by: (Signature)		Date:		Time:		Hold:		Condition:			
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Received by: (Signature)		Date:		Time:		Hold:		Condition:			
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Received for lab by: (Signature)		Date:		Time:		Hold:		Condition:			

NCF- / OK

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Received by OGD: 11/22/2022 9:24:38 AM
Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 10 of 13	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																 12065 Lebanon Rd Mount. Juliet, TN 37122 Phone: 615-753-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																	
Fax:																					
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #		Date Results Needed															
Immediately Packed or Ice N ____ Y ☒																					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Shipped Via:			
MW-29		Grab	GW		6/16/20	1020	10	X	X	X	X	X	X					Remarks			
RW-#16B		Grab	GW		6/16/20	940	8	X	X		X	X	X					Sample # (lab only)			
MW-106		Grab	GW		6/16/20	1625	10	X	X	X	X	X	X								
MW-139		Grab	GW		6/16/20	1145	10	X	X	X	X	X	X								
MW-50		Grab	GW		6/16/20	1235	8	X	X		X	X	X								
MW-97		Grab	GW				12	X	X	X	X	X	X			X					
MW-92		Grab	GW				10	X	X	X	X	X	X								
RW-1		Grab	GW				10	X	X	X	X	X	X								
MW-91		Grab	GW		6/16/20	1400	10	X	X	X	X	X	X								
MW-90		Grab	GW		6/16/20	1445	10	X	X	X	X	X	X								
Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered. pH ____ Temp ____ Flow ____ Other ____ Samples returned via: ____ UPS ☒ FedEx ____ Courier ____ Tracking # _____ Relinquished by: (Signature)  Date: 6/17/20 Time: 0800 Received by: (Signature) Trip Blank Received: Yes / No HCL / Mechl TBR Temp: ____ °C Bottles Received: ____ If preservation required by Login: Date/Time Relinquished by: (Signature) Date: Time: Received for lab by: (Signature) Date: Time: Hold: Condition: NCF / OK																			

NCF OK

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 12 of 13	
				Report to: Julie Speer				Email To: jspeer@trccompanies.com				 12065 Leanan Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 									
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #		Date Results Needed		No. of Cntrs													
Immediately Packed on Ice ☒ N ☐ Y																					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)				
DUP-REST-04		Grab	GW				11	X	X	X		X	X	X	X						
DUP-REST-05		Grab	GW		6/16/20	1200	11	X	X	X		X	X	X	X						
EB-REST-01		Grab	GW				10	X	X	X	X	X	X								
EB-REST-02		Grab	GW		6/16/20	1435	10	X	X	X	X	X	X								
EB-REST-03		Grab	GW				10	X	X	X	X	X	X								
EB-REST-04		Grab	GW				11	X	X	X		X	X	X	X						
EB-REST-05		Grab	GW		6/16/20	1415	11	X	X	X		X	X	X	X						
TRIP BLANK-REST-01		Grab	GW				1	X													
TRIP BLANK-REST-02		Grab	GW		6/16/20		1	X													
TRIP BLANK-REST-03		Grab	GW		6/16/20	su	1	X													
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Trip Blank-REST-03 replacement sample (6/19/20) su Dissolved metals field-filtered.										pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist CCC Seal Present/Intact: ☒ Y ☐ N CCC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N							
Relinquished by: (Signature) 		Date: 6/17/20		Time: 0800		Received by: (Signature)		Trip Blank Received: Yes / No HCL / MeOH TBR		Temp. °C		Bottles Received		If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp. °C		Bottles Received		If preservation required by Login: Date/Time									
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date:		Time:		Hold:		Condition: NCE / OK							

Released to Imaging: 11/22/2022 9:31:39 AM

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Received by OGD: 11/22/2022 9:24:38 AM
Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres
Chk

Report to:
Julie Speer

Email To:
jspeer@trccompanies.com

Project
Description: TEL Spring 2020

City/State
Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #
330538.0000.0000

Lab Project #
TRCATX-TEL

Collected by (print):
Scott Ude/HMI Team

Site/Facility ID #
TEL (Navajo - Artesia)

P.O. #
150726

Collected by (signature):

Rush? (Lab MUST Be Notified)

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Quote #

Date Results Needed

Immediate? ☒
Packed on Ice N ☐ Y ☒

Nc.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
TEL-4	Grab	GW		6/16/20	1255	10	X	X	X	X	X	X				
TEL-3	Grab	GW				10	X	X	X	X	X	X				
TEL-2	Grab	GW		6/16/20	1125 SM	10	X	X	X	X	X	X				
TEL-1	Grab	GW		6/16/20	1025 SM	10	X	X	X	X	X	X				
MW-49	Grab	GW		6/16/20	1340	11	X	X	X		X	X	X	X		
DUP-TEL-01	Grab	GW		6/16/20	1200	10	X	X	X	X	X	X				
EB-TEL-01	Grab	GW		6/16/20	1140	10	X	X	X	X	X	X				
Trip Blank-TEL-01	Grab	GW		6/16/20		1	X									

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Wastewater
DW - Drinking Water
OT - Other

Remarks:

Dissolved metals field-filtered.

pH Temp

Flow Other

Samples returned via:

UPS ☒ FedEx ☐ Courier ☐

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes/No

HCL/MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

DAY 1

Chain of Custody Page 1 of 1

Pace Analytical

National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5856
Phone: 800-767-5859
Fax: 615-758-5859



L#

Table #

Acctnum: TRCATX

Template: T118731

Prelogin: P763442

TSR: 526

PS:

Shipped Via:

Remarks

Sample # (lab only)

TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical*
National Center for Testing & Innovation

12065 Leannon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5839



Report to:
Julie Speer

Email To:
jspeer@trccompanies.com

Project Description:
TMD Spring 2020

City/State
Collected: **Artesia, NM**

Phone: **512-684-3170**
Fax:

Client Project #
330538.0000.0000

Lab Project #
TRCATX-TMD

Collected by (print):
Scott Ude/HMI Team

Site/Facility ID #
TMD (Navajo - Artesia)

P.O. #
150726

Collected by (signature):
Scott Ude

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Immediately
Packed on ice N ___ Y ☒

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	
MW-25	Grab	GW				8	X	X		X	X	X					
MW-20	Grab	GW				8	X	X		X	X	X					
NP-1	Grab	GW				5	X				X	X					
MW-8	Grab	GW				10	X	X	X	X	X	X					
MW-21	Grab	GW				10	X	X	X	X	X	X					
MW-71	Grab	GW				9	X	X			X	X	X	X			
MW-68	Grab	GW				8	X	X		X	X	X					
MW-27	Grab	GW				8	X	X		X	X	X					
MW-89	Grab	GW				8	X	X		X	X	X					
MW-16	Grab	GW				8	X	X		X	X	X					

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Waste Water
DW - Drinking Water
OT - Other

Remarks:
Dissolved metals field-filtered.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
___ UPS ☒ FedEx ___ Courier _____

Tracking # _____

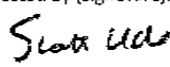
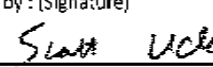
Sample Receipt Checklist

COC Seal Present/Intact: ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N

If Applicable

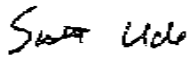
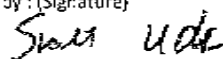
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N

Relinquished by: (Signature) <i>Scott Ude</i>	Date: 6/17/20	Time: 0800	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TSR	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
				Hold:	Condition: NCF / OK

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 2 of 2	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																 1206S Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: TMD Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170		Client: Project # 330538.0000.0000		Lab Project # TRCATX-TMD																	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # TMD (Navajo - Artesia)		P.O. # 150726																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #		Date Results Needed		No. of Cntrs													
Immediately Packed on Ice N ____ Y ☒																					
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time				VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (Lab only)	
MW-26	Grab	GW					8		X	X		X	X	X							
MW-46R	Grab	GW					8		X	X		X	X	X							
TRIP BLANK-TMD-01	Grab	GW					1		X												
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered.				pH _____ Temp _____ Flow _____ Other _____															
Samples returned via: ____ UPS ☒ FedEx _____ Courier _____		Tracking # _____																			
Relinquished by: (Signature) 		Date: 6/17/20		Time: 0800		Received by: (Signature)				Trip Blank Received: Yes / No ____ HCL / MeOH ____ TBR				Temp _____ °C Bottles Received _____				If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)				Temp _____ °C Bottles Received _____				If preservation required by Login: Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)				Date: _____ Time: _____				Hold: _____		Condition: NCF / OK					

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Received by OGD: 11/22/2022 9:24:38 AM
Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 6	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5855	
Project Description: EP Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-EP																	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # EP (Navajo - Artesia)		P.O. # 150726																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #		Date Results Needed		No. of Cntrs													
Immediately Packed on Ice N ____ Y ☒																					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks		Sample # (lab only)	
MW-6A		Grab	GW				10	☒	☒	☒	☒	☒	☒	☒							
MW-85 (LWAPL)		Grab	GW				10	☒	☒	☒	☒	☒	☒	☒							
MW-86		Grab	GW		6/17/20	1415	11	☒	☒	☒	☒	☒	☒	☒	☒						
MW-120		Grab	GW				10	☒	☒	☒	☒	☒	☒	☒							
MW-121		Grab	GW				10	☒	☒	☒	☒	☒	☒	☒							
MW-84		Grab	GW		6/17/20	1330	10	☒	☒	☒	☒	☒	☒	☒							
MW-122		Grab	GW		6/17/20	940	10	☒	☒	☒	☒	☒	☒	☒							
MW-81		Grab	GW		6/17/20	1025	10	☒	☒	☒	☒	☒	☒	☒							
MW-80		Grab	GW		6/17/20	1110	10	☒	☒	☒	☒	☒	☒	☒							
MW-79		Grab	GW		6/17/20	1155	10	☒	☒	☒	☒	☒	☒	☒							
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered.		pH: _____ Temp _____		Flow _____ Other _____		Samples returned via: ☒ UPS ☒ FedEx ☐ Courier		Tracking # _____		Trip Blank Received: Yes / No HCL / Meq TBR		Sample Receipt Checklist: COC Seal Present/Intact: ☒ Y ☒ N COC Signed/Accurate: ☒ Y ☒ N Bottles arrive intact: ☒ Y ☒ N Correct bottles used: ☒ Y ☒ N Sufficient volume sent: ☒ Y ☒ N If Applicable VQA Zero Headspace: ☒ Y ☒ N Preservation Correct/Checked: ☒ Y ☒ N							
Relinquished by: (Signature) 		Date: 6/17/20		Time: 1700		Received by: (Signature)		Temp: _____ °C		Bottles Received:		If preservation required by Login: Date/Time		Hold:		Condition: NCF / OK					
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)															
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date:		Time:											

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505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 4 of 6



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



Report to:
Julie Speer

Email To:
jspeer@trccompanies.com

Project Description: EP Spring 2020

City/State Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #
330538.0000.0000

Lab Project #
TRCATX-EP

Collected by (print):
Scott Ude/HMI Team

Site/Facility ID #
EP (Navajo - Artesia)

P.O. #
150726

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

immediately
Packed on Ice N Y ☒

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (Lab only)
OCD-8A	Grab	GW				11	X	X	X	X	X	X	X	X				
MW-1R	Grab	GW		6/17/20	1000	8	X	X		X	X	X						
MW-15	Grab	GW		6/17/20	1045	10	X	X	X	X	X	X						
OCD-1R	Grab	GW		6/17/20	1415	10	X	X	X	X	X	X						
OCD-2A	Grab	GW		6/17/20	1325	10	X	X	X	X	X	X						
OCD-3	Grab	GW		6/17/20	1145	10	X	X	X	X	X	X						
OCD-4	Grab	GW		6/17/20	1055	10	X	X	X	X	X	X						
MW-11A	Grab	GW		6/17/20	1235	10	X	X	X	X	X	X						
OCD-5	Grab	GW		6/17/20	1010	10	X	X	X	X	X	X						
MW-87	Grab	GW				8	X	X		X	X	X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Dissolved metals field-filtered.

pH Temp

Flow Other

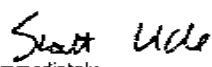
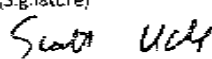
Samples returned via:

UPS FedEx Courier

Tracking #

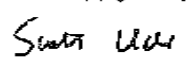
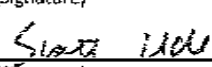
Sample Receipt Checklist
COC Seal Present/Intact: ☐ Y ☐ N
COC Signed/Accurate: ☐ Y ☐ N
Bottles arrive intact: ☐ Y ☐ N
Correct bottles used: ☐ Y ☐ N
Sufficient volume sent: ☐ Y ☐ N
MOA Zero Headspace: ☐ Y ☐ N
Preservation Correct/Checked: ☐ Y ☐ N

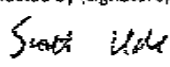
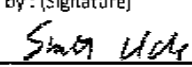
Relinquished by: (Signature) Scott Ude	Date: 6/17/20	Time: 1700	Received by: (Signature)	Trip-Blank Received: Yes/No HCL / MeOH TBR	Temp: °C	Bottles Received:	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)				
Relinquished by: (Signature)	Date:	Time:	Received for Lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk	Analysis / Container / Preservative										Chair. of Custody		Page 3 of 6	
Report to: Julie Speer				Email To: jspeer@trccompanies.com														 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 				
Project Description: EP Spring 2020				City/State Collected: Artesia, NM																		
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-EP																		
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # EP (Navajo - Artesia)		P.O. # 150726																		
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #																		
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed																		
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Shipped Via				
																		Remarks	Sample # (lab only)			
MW-18A		Grab	GW				9	X	X			X	X	X	X							
MW-70		Grab	GW				10	X	X	X	X	X	X	X								
MW-124		Grab	GW				10	X	X	X	X	X	X	X								
DUP-EP-01		Grab	GW				10	X	X	X	X	X	X	X								
DUP-EP-02		Grab	GW		6/17/20	1000	10	X	X	X	X	X	X	X								
DUP-EP-03		Grab	GW		6/17/20	1100	10	X	X	X	X	X	X	X								
EB-EP-01		Grab	GW				10	X	X	X	X	X	X	X								
EB-EP-02		Grab	GW				10	X	X	X	X	X	X	X								
EB-EP-03		Grab	GW				10	X	X	X	X	X	X	X								
EB-EP-04		Grab	GW		6/17/20	1210	10	X	X	X	X	X	X	X								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____										Sample Receipt Checklist: COC Seal Present/Intact: ☐ NP ☒ Y ☐ N COC Signed/Accurate: ☐ Y ☒ N Bottles arrive intact: ☐ Y ☒ N Correct bottles used: ☐ Y ☒ N Sufficient volume sent: ☐ Y ☒ N If Applicable: VOA Zero Headspace: ☐ Y ☒ N Preservation Correct/Checked: ☐ Y ☒ N										
Samples returned via: ☐ UPS ☒ FedEx ☐ Courier		Tracking #																				
Relinquished by: (Signature) 		Date: 6/17/20	Time: 1700	Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeOH: TBR														
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)				Temp: °C Bottles Received:				If preservation required by Login: Date/Time										
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)				Date: Time:				Hold: Condition: NCF / OK										

Page 287 of 305
Received by OCD: 11/22/2022 9:24:38 AM
Released to Imaging: 11/22/2022 9:31:39 AM

DAY 2

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com		Pres. Chk		Analysis / Container / Preservative										Chain of Custody Page 2 of 3			
Report to: Julie Speer		Email To: jspeer@trccompanies.com														 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859			
Project Description: REST Spring 2020		City/State Collected: Artesia, NM																	
Phone: 512-684-3170 Fax:		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST															
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726															
Collected by (signature): 		Rush? (Lab MUST Be Notified) Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ Two Day _____ 10 Day (Rad Only) _____ Three Day _____		Quote #															
Immediately Packed on Ice N _____ Y ☒				Date Results Needed		No. of Cntrs													
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
RW-115C (LNAPL)		Grab	GW				8	X	X		X	X	X						
MW-48 (LNAPL)		Grab	GW				10	X	X	X	X	X	X						
MW-130		Grab	GW		6/17/20	1410	10	X	X	X	X	X	X						
KWB-4 (LNAPL)		Grab	GW				8	X	X		X	X	X						
RW-19 (LNAPL)		Grab	GW				8	X	X		X	X	X						
MW-52		Grab	GW		6/17/20	1320	11	X	X	X		X	X	X	X				
MW-109		Grab	GW		6/17/20	1235	10	X	X	X	X	X	X						
MW-110		Grab	GW		6/17/20	1150	10	X	X	X	X	X	X						
RW-12R		Grab	GW		6/17/20	1535	8	X	X		X	X	X						
RW-113 MW-113		Grab	GW		6/17/20	1510	10	X	X	X	X	X	X						
Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other _____		Remarks: Lab-print RW-113 should have been "MW-113" Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____																	
Samples returned via: UPS ☒ FedEx _____ Courier _____		Tracking # _____																	
Relinquished by: (Signature) 		Date: 6/17/20		Time: 1700		Received by: (Signature)		Trip Blank Received: Yes/No FCL/Meoh TBR											
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Temp: °C		Bottles Received:		If preservation required by Login Date/Time							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date:		Time:		Hold:		Condition: NCF / OK					

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody		Page 2 of 13
Report to: Julie Speer				Email To: jspeer@trccompanies.com																		
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																		
Phone: 512-684-3170 Fax:		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																		
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																		
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #		Date Results Needed																
Immediately Packed on Ice ☐ N ☒ Y																						
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)			
KWB-8 (LNAPL)		Grab	GW				9	X	X			X	X	X	X							
RW-22 (LNAPL)		Grab	GW				8	X	X		X	X	X									
RW-20A (LNAPL)		Grab	GW				8	X	X		X	X	X									
RW-20B (LNAPL)		Grab	GW				8	X	X		X	X	X									
RW-13R (LNAPL)		Grab	GW				8	X	X		X	X	X									
RW-14R (LNAPL)		Grab	GW				8	X	X		X	X	X									
MW-133 (LNAPL)		Grab	GW				10	X	X	X	X	X	X									
MW-134		Grab	GW		6/17/20	1340	10	X	X	X	X	X	X									
RA-4798		Grab	GW		6/17/20	1605	5	X				X	X									
RA-4196		Grab	GW		6/17/20	1550	5	X				X	X									
* Matrix: SS - Soil, AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____ Samples returned via: ☐ UPS ☒ FedEx ☐ Courier																				
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Trip Blank Received: Yes/No																
		6/17/20	1700			HCL / MeOH TBR																
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C Bottles Received:		If preservation required by Login, Date/Time														
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date: Time:		Hold:		Condition: NCF / OK												

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 National Center for Testing & Inspection

12965 Lebanon Rd
 Mount. Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859



TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to:
Julie Speer

Email To:
jspeer@trccompanies.com

Project Description:
REST Spring 2020

City/State
Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #
330538.0000.0000

Lab Project #
TRCATX-REST

Collected by (print):
Scott Ude/HMI Team

Site/Facility ID #
REST (Navajo - Artesia)

P.O. #
150726

Collected by (signature):

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Red Only)
____ Two Day ____ 10 Day (Red Only)
____ Three Day

Quote #

Date Results Needed

Immediately
Packed on Ice N ____ Y ☒

No. of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)
RA-3156	Grab	GW		6/17/20	1520	5	X				X	X				
RA-313	Grab	GW		6/17/20	855	5	X				X	X				
KWB-7	Grab	GW		6/16/20	1330	9	X	X			X	X	X	X		
MW-135	Grab	GW		6/17/20	1420	10	X	X	X	X	X	X				
KWB-11A	Grab	GW		6/16/20	1425	11	X	X	X		X	X	X	X		
KWB-11B	Grab	GW		6/16/20	1515	11	X	X	X		X	X	X	X		
MW-115	Grab	GW				10	X	X	X	X	X	X				
MW-114	Grab	GW				10	X	X	X	X	X	X				
MW-117	Grab	GW				10	X	X	X	X	X	X				
MW-118	Grab	SS				10	X	X	X	X	X	X				

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

Dissolved metals field-filtered.

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

____ UPS ☒ FedEx ____ Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:

NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 3 of 13

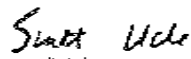
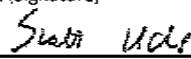
Face Analytical®
National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



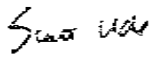
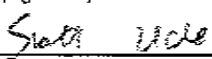
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Table #
Acctnum: TRCATX
Template T133463
Prelogin: P763304
TSR: 526
PB:
Shipped Via:
Remarks
Sample # (lab only)

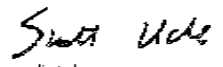
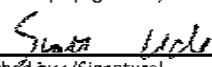
Sample Receipt Checklist
COC Seal Present/Intact: ____ Y ____ N
COC Signed/Accurate: ____ Y ____ N
Bottles arrive intact: ____ Y ____ N
Correct bottles used: ____ Y ____ N
Sufficient volume sent: ____ Y ____ N
if applicable
VQA Zero Headspace: ____ Y ____ N
Preservation Correct/Checked: ____ Y ____ N

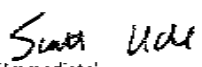
Released to Imaging: 11/22/2022 9:31:39 AM

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 5 of 13			
Report to: Julie Speer		Email To: jspeer@trccompanies.com														 12063 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 801-767-5859 Fax: 615-758-5859			
Project Description: REST Spring 2020		City/State Collected: Artesia, NM																	
Phone: 512-684-3170 Fax:		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST															
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726															
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote # Date Results Needed															
Immediately Packed on Ice N ____ Y ☒																			
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, IDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Shipped Via:	
KWB-5 (LNAPL)		Grab	GW				8	X	X		X	X	X						
MW-111		Grab	GW		6/17/20	1045	10	X	X	X	X	X	X						
KWB-6 (LNAPL)		Grab	GW				11	X	X		X	X	X				X		
MW-112 (LNAPL)		Grab	GW				10	X	X	X	X	X	X						
MW-132 (LNAPL)		Grab	GW				10	X	X	X	X	X	X						
MW-57		Grab	GW				10	X	X	X	X	X	X						
RW-114-0 (DRY)		Grab	GW				8	X	X		X	X	X						
KWB-12A		Grab	GW				11	X	X	X		X	X	X	X				
KWB-12B		Grab	GW				11	X	X	X		X	X	X	X				
KWB-2R (LNAPL)		Grab	GW				8	X	X		X	X	X						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered.																	
		Samples returned via: ___ UPS ☒ FedEx ___ Courier ___																	
Relinquished by: (Signature) 		Date: 6/17/20	Time: 1700	Received by: (Signature)		Trip Blank Received: Yes / No HCL / MeOH TAR													
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C		Bottles Received:											
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date:		Time:		Hold:								Condition: NCF / OK	

Sample Receipt Checklist	
COC Seal Present/Intact:	NP Y ☒ N
COC Signed/Accurate:	Y ☒ N
Bottles arrive intact:	Y ☒ N
Correct bottles used:	Y ☒ N
Sufficient volume sent:	Y ☒ N
If Applicable	
VOA Zero Headspace:	Y ☒ N
Preservation Correct/Checked:	Y ☒ N

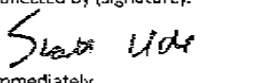
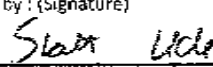
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chair of Custody Page 6 of 3	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																 12055 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.C. # 150726																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #		Date Results Needed															
Immediately Packed on Ice N ____ Y ☒																					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Shipped Via:			
MW-58 (LNAPL)		Grab	GW				9	X	X			X	X	X	X			Remarks			
KWB-13		Grab	GW				9	X	X			X	X	X	X			Sample # (lab only)			
MW-103		Grab	GW				10	X	X	X	X	X	X								
MW-104		Grab	GW				10	X	X	X	X	X	X								
MW-64		Grab	GW				10	X	X	X	X	X	X								
MW-65 (LNAPL)		Grab	GW				10	X	X	X	X	X	X								
RW-5R (LNAPL)		Grab	GW				8	X	X		X	X	X								
MW-102		Grab	GW				10	X	X	X	X	X	X								
RW-4		Grab	GW		6/17/20	915	8	X	X		X	X	X								
RW-6 (LNAPL)		Grab	GW				8	X	X		X	X	X								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered. pH _____ Temp _____ Flow _____ Other _____ Samples returned via: ☒ UPS ☒ FedEx ☐ Courier Tracking # _____																			
Relinquished by: (Signature) 		Date: 6/17/20	Time: 1700	Received by: (Signature)		Trip Blank Received: Yes / No HCL / MeOH TSR															
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C Bottles Received:												If preservation required by Login: Date/Time			
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date: Time:												Hold: Condition: NCF / OK			

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk	Analysis / Container / Preservative										Chain of Custody Page 7 of 13	
Report to: Julie Speer				Email To: jspeer@trccompanies.com				VOC DRO GRO Total/Dissolved Short List Metals Cations (from "total metals" bottle) Anions, NO2NO3, TDS Total/Dissolved Long List Metals Cyanide SVOCs (8270) EDB (8011)											 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 803-767-5859 Fax: 615-758-5859	
Project Description: REST Spring 2020				City/State Collected: Artesia, NM															L# Table # Acctnum: TRCATX Template: T133463 Prelogin: P763304 TSP: 526 PB:	
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #																
Immediately Packed on Ice ☒ ☐				Date Results Needed		No. of Cntrs											Shipped Via:			
																	Remarks Sample # (Lab only)			
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)				
MW-99	Grab	GW		6/17/20	1250	10	X	X	X	X	X	X	X	X						
MW-66	Grab	GW		6/17/20	1245	11	X	X	X	X	X	X	X	X						
MW-28	Grab	GW		6/17/20	1340	11	X	X	X	X	X	X	X	X						
MW-59	Grab	GW		6/17/20	1015	10	X	X	X	X	X	X	X	X						
MW-60	Grab	GW		6/17/20	1145	11	X	X	X	X	X	X	X	X						
MW-107 (LNAPL)	Grab	GW				10	X	X	X	X	X	X	X	X						
MW-128 (LNAPL)	Grab	GW				10	X	X	X	X	X	X	X	X						
MW-125	Grab	GW				10	X	X	X	X	X	X	X	X						
MW-116	Grab	GW				10	X	X	X	X	X	X	X	X						
UG-3R	Grab	GW				11	X	X	X	X	X	X	X	X						
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Waste Water DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered.				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist COC Seal Present/Intact: ☐ NP ☒ Y ☐ N COC Signed/Accurate: ☐ Y ☒ N Bottles arrive intact: ☐ Y ☒ N Correct bottles used: ☐ Y ☒ N Sufficient volume sent: ☐ Y ☒ N If Applicable VOA Zero Headspace: ☐ Y ☒ N Preservation Correct/Checked: ☐ Y ☒ N										
Relinquished by: (Signature) 		Date: 6/17/20		Time: 1700		Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeOH TBR				If preservation required by Login: Date/Time						
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)				Temp: °C Bottles Received:										
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)				Date: Time:				Hold:		Condition: NCF / OK				

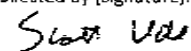
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk	Analysis / Container / Preservative										Chain of Custody Page <u>9</u> of <u>13</u>	
Report to: Julie Speer				Email To: jspeer@trccompanies.com														 12005 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 		
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																
Collected by (signature): 		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #																
Immediate? ☒ Packed on Ice N ___ Y ☒		Date Results Needed		No. of Cntrs																
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)		
MW-137 (LNAPL)	Grab	GW				13	X	X	X		X	X	X	X	X					
MW-138 (LNAPL)	Grab	GW				13	X	X	X		X	X	X	X	X					
MW-23	Grab	GW		6/17/20	1325	10	X	X	X	X	X	X								
MW-39	Grab	GW				10	X	X	X	X	X	X								
MW-98	Grab	GW				10	X	X	X	X	X	X								
RW-10	Grab	GW				10	X	X	X	X	X	X								
MW-40	Grab	GW				10	X	X	X	X	X	X								
MW-41	Grab	GW				10	X	X	X	X	X	X								
RW-9	Grab	GW				10	X	X	X	X	X	X								
MW-42	Grab	GW		6/17/20	1420	10	X	X	X	X	X	X								
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - Wastewater DW - Drinking Water OT - Other				Remarks: Dissolved metals field-filtered. Samples returned via: <u>UPS</u> <u>FedEx</u> <u>Courier</u> Tracking # _____ Relinquished by: (Signature) <u>Scott Ude</u> Date: <u>6/17/20</u> Time: <u>1700</u> Received by: (Signature) _____ Temp. _____ °C Bottles Received: _____ If preservation required by Login: Date/Time _____ Condition: <u>NF</u> / <u>OK</u>																

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505 E. Huntland Dr, Ste 250
Austin, TX 78752

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TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 11 of 13				
Report to: Julie Speer		Email To: jspeer@trccompanies.com														 12055 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5858				
Project Description: REST Spring 2020		City/State Collected: Artesia, NM																		
Phone: 512-684-3170 Fax:		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #																
Immediately Packed on Ice N ____ Y ☒				Date Results Needed																
Sample ID		Comp/Grab	Matrix	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks		Sample # (Lab only)
MW-96		Grab	GW				10	X	X	X	X	X	X							
MW-94 (LNAPL)		Grab	GW				10	X	X	X	X	X	X							
RW-8 (LNAPL)		Grab	GW				8	X	X		X	X	X							
MW-67 (LNAPL)		Grab	GW				13	X	X	X		X	X	X	X	X				
MW-95		Grab	GW				10	X	X	X	X	X	X							
RW-7		Grab	GW		6/17/20	1220	10	X	X	X	X	X	X							
RW-17A		Grab	GW		6/17/20	1510	10	X	X	X	X	X	X							
DUP-REST-01		Grab	GW		6/17/20	1200	10	X	X	X	X	X	X							
DUP-REST-02		Grab	GW		6/17/20	1100 SW	10	X	X	X	X	X	X							
DUP-REST-03		Grab	GW		6/17/20	1100	10	X	X	X	X	X	X							
Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered.		pH _____ Temp _____ Flow _____ Other _____		Samples returned via: UPS ☒ FedEx _____ Courier _____		Tracking # _____		Trip Blank Received: Yes / No HCL / MeOH TBR		Bottles Received: _____		If preservation required by Login: Date/Time		Hold: _____		Condition: NCF / OK		
Relinquished by: (Signature) 		Date: 6/17/20		Time: 1700		Received by: (Signature)		Received by: (Signature)		Temp: _____ °C		Bottles Received: _____		If preservation required by Login: Date/Time		Hold: _____		Condition: NCF / OK		
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)		Date:		Time:		Hold:		Condition: NCF / OK						

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TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 1 of 13	
Report to: Julie Speer				Email To: jspeer@trccompanies.com																 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859	
Project Description: REST Spring 2020				City/State Collected: Artesia, NM																	
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-REST																	
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # REST (Navajo - Artesia)		P.O. # 150726																	
Collected by (signature): 		Rush? (Lab MUST Be Notified) ____ Same Day ____ Five Day ____ Next Day ____ 5 Day (Rad Only) ____ Two Day ____ 10 Day (Rad Only) ____ Three Day		Quote #																	
Immediately Packed on Ice N ____ Y ☒				Date Results Needed				No. of Cntrs													
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time				VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TD5	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Shipped Via:	
Trip Blank REST-04		Grab	GW				1	☒												Remarks	
Trip Blank REST-05		Grab	GW				1	☒												Sample # (lab only)	

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505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095
apinvoiceapproval@trcsolutions.com

Report to:
Julie Speer

Email To:
jspeer@trccompanies.com

Project Description:
TEL Spring 2020

City/State
Collected: Artesia, NM

Phone: 512-684-3170
Fax:

Client Project #
330538.0000.0000

Lab Project #
TRCATX-TEL

Collected by (print):
Scott Ude/HMI Team

Site/Facility ID #
TEL (Navajo - Artesia)

P.O. #
150726

Collected by (signature):

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Immediately
Packed on Ice N ____ Y ☒

No. of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Remarks	Sample # (lab only)
TEL 4	Grab	GW				10	X	X	X	X	X	X						
TEL 3 (LNAPL)	Grab	GW				10	X	X	X	X	X	X						
TEL 2	Grab	GW				10	X	X	X	X	X	X						
TEL 1	Grab	GW				10	X	X	X	X	X	X						
MW 49	Grab	GW				11	X	X	X		X	X	X	X				
DUP TEL 01	Grab	GW				10	X	X	X	X	X	X						
EB TEL 01	Grab	GW				10	X	X	X	X	X	X						
Trip Blank TEL 01	Grab	GW				1	X											

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:
Dissolved metals field-filtered.

Samples returned via:
☐ UPS ☒ FedEx ☐ Courier

Tracking #

ph _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist
COC Seal Present/Intact: ☐ Y ☐ N
COC Signed/Accurate: ☐ Y ☐ N
Bottles arrive intact: ☐ Y ☐ N
Correct bottles used: ☐ Y ☐ N
Sufficient volume sent: ☐ Y ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☐ N
Preservation Correct/Checked: ☐ Y ☐ N

Relinquished by: (Signature) Scott Ude	Date: 6/17/20	Time: 1700	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TSR	Temp: _____ °C	Bottles Received:	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)				
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK

Chain of Custody Page 1 of 1

Pace Analytical
National Center for Testing & Innovation

12965 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-757-5859
Fax: 615-758-5859



L# _____
Table # _____
Acctnum: TRCATX
Template: T118731
Prelogin: P763442
TSR: 526
PB: _____
Shipped Via: _____

TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752				Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com				Pres Chk	Analysis / Container / Preservative										Chain of Custody Page <u>2</u> of <u>2</u>	
Report to: Julie Speer				Email To: jspeer@trccompanies.com				 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5853 Phone: 800-767-5859 Fax: 615-758-5859 												
Project Description: TMD Spring 2020				City/State Collected: Artesia, NM																
Phone: 512-684-3170		Client Project # 330538.0000.0000		Lab Project # TRCATX-TMD																
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # TMD (Navajo - Artesia)		P.O. # 150726																
Collected by (signature): <i>Scott Ude</i>		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #																
Immediately Packed on Ice N ☐ Y ☒		Date Results Needed		No. of Cntrs																
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDs	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)				
MW-26	Grab	GW		6/17/20	1230	8	X	X		X	X	X								
MW-46R	Grab	GW		6/17/20	1345	8	X	X		X	X	X								
TRIP BLANK-TMD-01	Grab	GW		6/17/20	—	1	X													
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bypass WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered.				pH _____ Temp _____ Flow _____ Other _____				Sample Receipt Checklist: COC Seal Present/Intact: ☐ NP ☐ Y ☐ N COC Signed/Accurate: ☐ Y ☐ N Bottles arrive intact: ☐ Y ☐ N Correct bottles used: ☐ Y ☐ N Sufficient volume sent: ☐ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☐ N Preservation Correct/Checked: ☐ Y ☐ N										
Relinquished by: (Signature) <i>Scott Ude</i>		Date: 6/17/20		Time: 1700		Received by: (Signature)				Trip Blank Received: Yes / No HCL / MeOH TBR				If preservation required by Login: Date/Time						
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)				Temp: °C Bottles Received:										
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature)				Date: Time:				Hold:		Condition: NCF / OK				



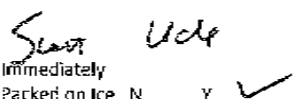
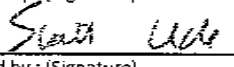
Pace Analytical*
National Center for Testing & Innovation

Condition:
NCF / OK

CCC Seal present/Intact:	NP	Y	N
CCC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
<u>If Applicable</u>			
VOA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N

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Received by OGD: 11/22/2022 9:24:38 AM
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TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752		Billing Information: Accounts Payable 21 Griffin Road North Windsor, CT 06095 apinvoiceapproval@trcsolutions.com		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 2 of 2							
Report to: Julie Speer		Email To: jspeer@trccompanies.com														 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-267-5853 Fax: 615-758-5859							
Project Description: NCL Spring 2020		City/State Collected: Artesia, NM																					
Phone: 512-684-3170 Fax:		Client Project # 330538.0000.0000		Lab Project # TRCATX-NCL												L #							
Collected by (print): Scott Ude/HMI Team		Site/Facility ID # NCL (Navajo - Artesia)		P.O. # 150726												Table #							
Collected by (signature):  Immediately Packed on Ice N ☐ Y ☒		Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote # Date Results Needed												Acctnum: TRCATX Template: T133457 Prelogin: P763441 TSR: 526 PB:							
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Total/Dissolved Short List Metals	Cations (from "total metals" bottle)	Anions, NO2NO3, TDS	Total/Dissolved Long List Metals	Cyanide	SVOCs (8270)	EDB (8011)	Shipped Via:					
MW-54A		Grab	GW				8	X	X		X	X	X					Remarks					
NCL-49		Grab	GW				8	X	X		X	X	X					Sample # Lab only					
MW-53		Grab	GW				8	X	X		X	X	X					missing due to construction					
DUP-NCL-01		Grab	GW				8	X	X		X	X	X										
EB-NCL-01		Grab	GW		6/17/20	1100	8	X	X		X	X	X										
TRIP-BLANK-NCL-01		Grab	GW				1	X															
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: Dissolved metals field-filtered.		pH _____ Temp _____ Flow _____ Other _____																			
Relinquished by: (Signature) 		Date: 6/17/20	Time: 1700	Received by: (Signature)		Trip Blank Received: Yes/No HCL/MeOH TBR												Sample Receipt Checklist COC Seal Present/Intact: ☐ Y ☒ N COC Signed/Accurate: ☐ Y ☒ N Bottles arrive intact: ☐ Y ☒ N Correct bottles used: ☐ Y ☒ N Sufficient volume sent: ☐ Y ☒ N If Applicable VOA Zero Headspace: ☐ Y ☒ N Preservation Correct/Checked: ☐ Y ☒ N					
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: _____ °C		Bottles Received:												If preservation required by LogIn: Date/Time			
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date:		Time:		Hold:												Condition: NCF / OK	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 160748

CONDITIONS

Operator: NAVAJO REFINING COMPANY, L.L.C. P.O. Box 159 Artesia, NM 88211	OGRID: 15694
	Action Number: 160748
	Action Type: [UF-DP] Discharge Permit (DISCHARGE PERMIT)

CONDITIONS

Created By	Condition	Condition Date
scwells	Accepted for Record Retention Purposes-Only	11/22/2022